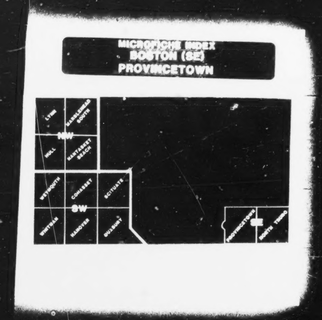
NO 1:100,000

COMPOSITE

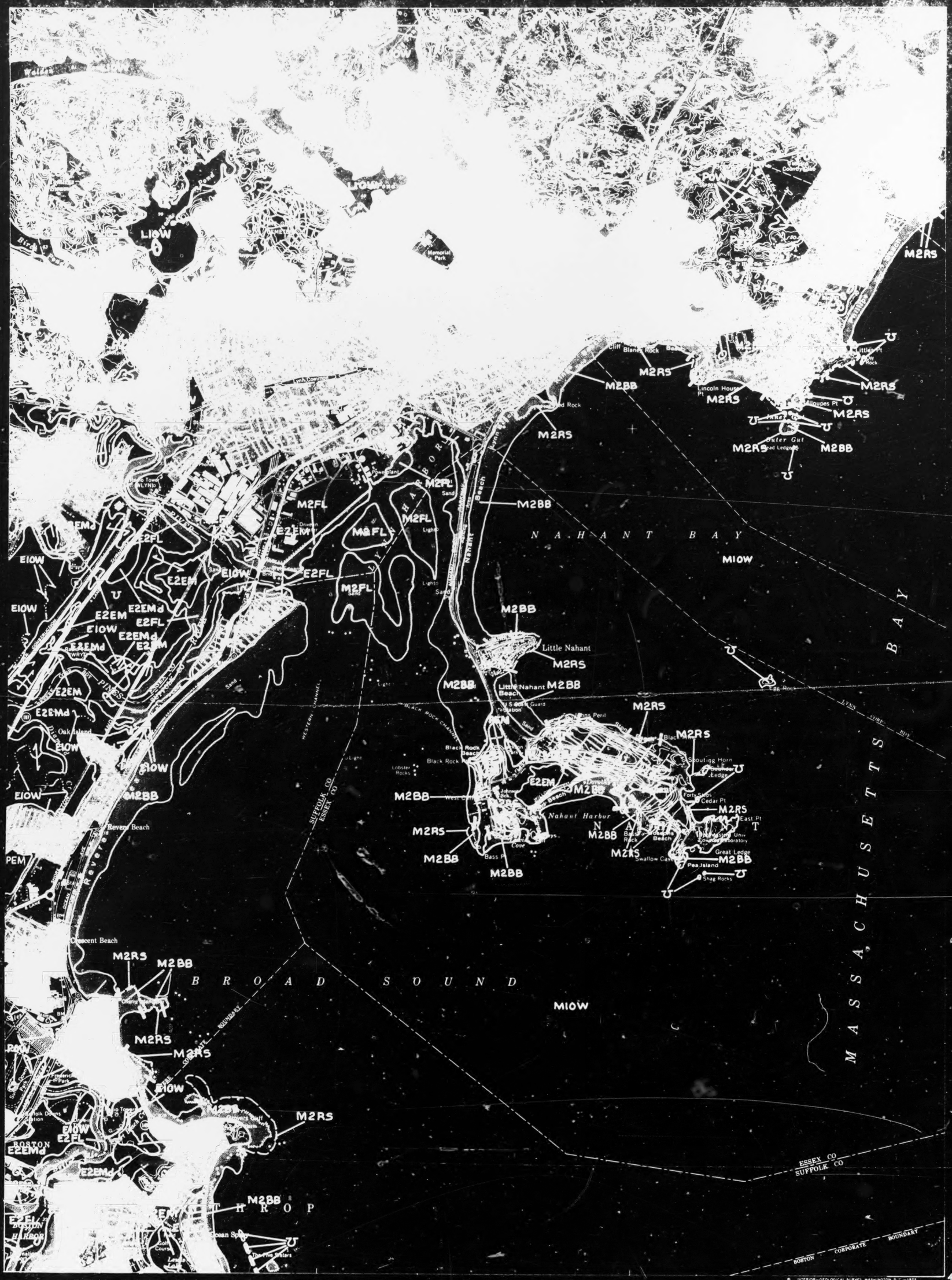


GRID

№ 2
Bottom Half Shot
Top →

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR



BOSTON SE
PROVINCETOWN

SCALE 1:24000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

1

42°22'30"

70°52'30"

4/77

LYNN, MASS.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 8 Unknown Submergent
- RF REEF: 1 Coral, 3 Worm
- OW OPEN WATER: Unknown Bottom

2 – Intertidal

- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 8 Unknown Submergent
- RF REEF: 1 Coral, 3 Worm
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 8 Vegetated Non pioneer
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder, 8 Vegetated Non pioneer
- BB BEACH/BAR: 1 Cobble/Gravel, 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

- RB – ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB – AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- RF – REEF: 2 Mollusc, 3 Worm
- OW – OPEN WATER: Unknown Bottom

2 – Intertidal

- AB – AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 6 Unknown Submergent, 7 Unknown Surface
- RF – REEF: 2 Mollusc, 3 Worm
- FL – FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 8 Vegetated Non pioneer
- SB – STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- RS – ROCKY SHORE: 1 Bedrock, 2 Boulder, 8 Vegetated Non pioneer
- BB – BEACH/BAR: 1 Cobble/Gravel, 2 Sand
- EM – EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
- SS – SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Broad leaved Evergreen, 3 Needle leaved Evergreen, 4 Dead, 5 Deciduous, 6 Evergreen
- FO – FORESTED: 1 Broad leaved Deciduous, 2 Broad leaved Evergreen, 3 Needle leaved Evergreen, 4 Dead, 5 Deciduous, 6 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Tidal

- EM – EMERGENT(1): 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent
- RB – ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic

2 – Lower Perennial

- AB – AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- FL – FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 8 Vegetated Non pioneer

3 – Upper Perennial

4 – Intermittent

- SB – STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- RS – ROCKY SHORE: 1 Bedrock, 2 Boulder
- BB – BEACH/BAR: 1 Cobble/Gravel, 2 Sand

5 – Unknown Perennial

- OW – OPEN WATER: Unknown Bottom

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Limnetic

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- OW OPEN WATER: Unknown Bottom

2 – Littoral

- RB ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 8 Vegetated Non pioneer
- RS ROCKY SHORE: 1 Bedrock, 2 Boulder
- BB BEACH BAR: 1 Cobble Gravel, 2 Sand
- EM EMERGENT: 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent
- OW OPEN WATER: Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM
No Subsystem
CLASS
Subclass

- RB – ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB AQUATIC BED *: 1 Submergent Algal, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating leaved, 5 Floating, 6 Unknown Submergent, 7 Unknown Surface
- FL FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 8 Vegetated Non pioneer
- ML MOSS/LICHEN: 1 Moss, 2 Lichen
- EM EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
- SS SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 4 Dead, 5 Deciduous, 7 Evergreen
- FO FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- OW OPEN WATER: Unknown Bottom

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal
- A Temporary
- B Saturated
- C Seasonal
- D Seasonal Well-drained
- E Seasonal Saturated
- F Semipermanent
- G Intermittently Exposed
- H Permanent
- J Intermittently Flooded
- K Artificial
- Z Intermittently Exposed/Permanent
- W Intermittently Flooded/Temporary
- Y Saturated/Semipermanent/Seasonal

Tidal
- K Artificial
- L Subtidal
- M Irregularly Exposed
- N Regularly
- P Irregular
- R Seasonal Tidal
- S Temporary Tidal
- T Semipermanent Tidal
- V Permanent Tidal
- U Unknown

U Unknown

WATER CHEMISTRY

Coastal Salinity
- 1 Hypersaline
- 2 Eusaline
- 3 Mixohaline (Brackish)
- 4 Polyhaline
- 5 Mesohaline
- 6 Oligohaline
- 0 Fresh

Inland Salinity
- 7 Hypersaline
- 8 Eusaline
- 9 Mixosaline
- 0 Fresh

pH Modifiers for all Fresh Water
- a Acid
- i Circumneutral
- i Alkaline

SOIL
- g Organic
- r Mineral

SPECIAL MODIFIERS
- b Beaver
- d Partially Drained/Ditched
- f Farmed
- h Diked/Impounded
- n Artificial
- s Spoil
- x Excavated

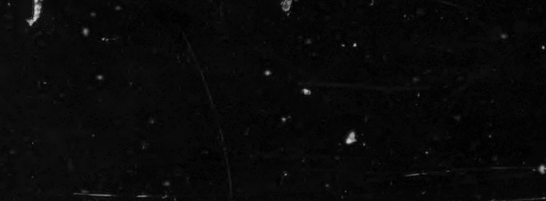
(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with **Classification of Wetlands and Deep-Water Habitats of the United States** (An Operational Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

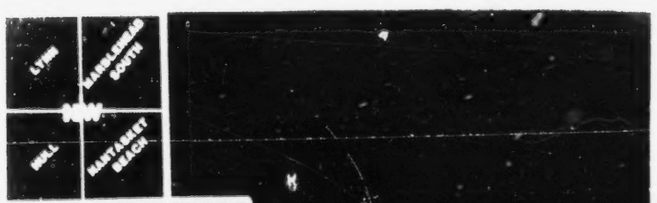
SYMBOLOGY EXAMPLE



NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.

MICROFICHE INDEX
BOSTON (SE)
PROVINCETOWN



NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

BOSTON SE
PROVINCETOWN

SCALE 1:24 000

4/77

MARBLEHEAD SOUTH, MASS.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM		AB AQUATIC BED	RF REEF		OW OPEN WATER	
1 Bedrock	1 Cobble/Gravel		1 Submergent Algal	1 Coral		Unknown Bottom	
2 Boulder	2 Sand		2 Submergent Vascular	3 Worm			
	3 Mud		6 Unknown Submergent				
	4 Organic						

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT		RS ROCKY SHORE		BB BEACH/BAR			
1 Submergent Algal	1 Coral	1 Cobble/Gravel		1 Bedrock		1 Cobble/Gravel			
2 Submergent Vascular	3 Worm	2 Sand		2 Boulder		2 Sand			
6 Unknown Submergent		3 Mud		6 Vegetated Non pioneer					
		4 Vegetated Non pioneer							

E – ESTUARINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Subtidal

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	RF – REEF	OW – OPEN WATER/ Unknown Bottom
1 Bedrock	1 Cobble/Gravel	1 Submergent Algal	2 Mollusc	
2 Boulder	2 Sand	2 Submergent Vascular	3 Worm	
	3 Mud	4 Floating leaved		
	4 Organic	5 Floating		
		6 Unknown Submergent		
		7 Unknown Surface		

2 – Intertidal

AB – AQUATIC BED	RF – REEF	FL – FLAT		SB STREAMBED	RS – ROCKY SHORE		BB BEACH/BAR		EM – EMERGENT						SS – SCRUB/SHRUB				FO
1 Submergent Algal	2 Mollusc	1 Cobble/Gravel		1 Cobble/Gravel	1 Bedrock		1 Cobble/Gravel		1 Persistent						1 Broad leaved Deciduous				
2 Submergent Vascular	3 Worm	2 Sand		2 Sand	2 Boulder		2 Sand		2 Nonpersistent						2 Broad leaved Evergreen				
6 Unknown Submergent		3 Mud		3 Mud	6 Vegetated Non pioneer				3 Narrow leaved Nonpersistent						4 Needle leaved Evergreen				
7 Unknown Surface		4 Organic		4 Organic					4 Broad leaved Nonpersistent						5 Dead				
		5 Vegetated Pioneer							5 Narrow leaved Persistent						6 Deciduous				
		6 Vegetated Non pioneer							6 Broad leaved Persistent						7 Evergreen				

R – RIVERINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Tidal

EM – EMERGENT(1)		RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM		AB – AQUATIC BED		FL – FLAT		
2 Nonpersistent		1 Bedrock	1 Cobble/Gravel		1 Submergent Algal		1 Cobble/Gravel		
3 Narrow leaved Nonpersistent		2 Boulder	2 Sand		2 Submergent Vascular		2 Sand		
4 Broad leaved Nonpersistent			3 Mud		3 Submergent Moss		3 Mud		
			4 Organic		4 Floating leaved		4 Organic		
					5 Floating		5 Vegetated Pioneer		
					6 Unknown Submergent		6 Vegetated Non pioneer		
					7 Unknown Surface				

2 – Lower Perennial

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM		AB – AQUATIC BED		FL – FLAT				
1 Bedrock	1 Cobble/Gravel		1 Submergent Algal		1 Cobble/Gravel				
2 Boulder	2 Sand		2 Submergent Vascular		2 Sand				
	3 Mud		3 Submergent Moss		3 Mud				
	4 Organic		4 Floating leaved		4 Organic				
			5 Floating		5 Vegetated Pioneer				
			6 Unknown Submergent		6 Vegetated Non pioneer				
			7 Unknown Surface						

3 – Upper Perennial

AB – AQUATIC BED		FL – FLAT							
1 Submergent Algal		1 Cobble/Gravel							
2 Submergent Vascular		2 Sand							
3 Submergent Moss		3 Mud							
4 Floating leaved		4 Organic							
5 Floating		5 Vegetated Pioneer							
6 Unknown Submergent		6 Vegetated Non pioneer							
7 Unknown Surface									

4 – Intermittent

SB – STREAMBED		RS – ROCKY SHORE							
1 Cobble/Gravel		1 Bedrock							
2 Sand		2 Boulder							
3 Mud									
4 Organic									

5 – Unknown Perennial

BB – BEACH/BAR		OW – OPEN WATER/ Unknown Bottom							
1 Cobble/Gravel									
2 Sand									

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems

L – LACUSTRINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Limnetic

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED		OW OPEN WATER
1 Bedrock	1 Cobble/Gravel	1 Submergent Algal		Unknown Bottom
2 Boulder	2 Sand	2 Submergent Vascular		
	3 Mud	3 Submergent Moss		
	4 Organic	4 Floating leaved		
		5 Floating		
		6 Unknown Submergent		
		7 Unknown Surface		

2 – Littoral

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED		FL FLAT		RS ROCKY SHORE	BB BEACH/BAR	EM EMERGENT	OW OPEN WATER
1 Bedrock	1 Cobble/Gravel	1 Submergent Algal		1 Cobble/Gravel		1 Bedrock	1 Cobble/Gravel	2 Nonpersistent	Unknown Bottom
2 Boulder	2 Sand	2 Submergent Vascular		2 Sand		2 Boulder	2 Sand	3 Narrow leaved Nonpersistent	
	3 Mud	3 Submergent Moss		3 Mud				4 Broad leaved Nonpersistent	
	4 Organic	4 Floating leaved		4 Organic					
		5 Floating		5 Vegetated Pioneer					
		6 Unknown Submergent		6 Vegetated Non pioneer					
		7 Unknown Surface							

P – PALUSTRINE

ECOLOGICAL SYSTEM | No Subsystem | CLASS | Subclass

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED		FL FLAT		ML – MOSS/ LICHEN	EM EMERGENT	SS SCRUB/SHRUB	FO FORESTED	OW OPEN WATER
1 Bedrock	1 Cobble/Gravel	1 Submergent Algal		1 Cobble/Gravel		1 Moss	1 Persistent	1 Broad leaved Deciduous	1 Broad leaved Deciduous	Unknown Bottom
2 Boulder	2 Sand	2 Submergent Vascular		2 Sand		2 Lichen	2 Nonpersistent	2 Needle leaved Deciduous	2 Needle leaved Deciduous	
	3 Mud	3 Submergent Moss		3 Mud			3 Narrow leaved Nonpersistent	3 Broad leaved Evergreen	3 Broad leaved Evergreen	
	4 Organic	4 Floating leaved		4 Organic			4 Broad leaved Nonpersistent	4 Needle leaved Evergreen	4 Needle leaved Evergreen	
		5 Floating		5 Vegetated Pioneer			5 Narrow leaved Persistent	5 Dead	5 Dead	
		6 Unknown Submergent		6 Vegetated Non pioneer			6 Broad leaved Persistent	6 Deciduous	6 Deciduous	
		7 Unknown Surface						7 Evergreen	7 Evergreen	

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal

A	Temporary	H	Permanent
B	Saturated	J	Intermittently Flooded
C	Seasonal	K	Artificial
D	Seasonal Well-drained	Z	Intermittently Exposed/Permanent
E	Seasonal Saturated	W	Intermittently Flooded/Temporary
F	Semipermanent	Y	Saturated/Semipermanent/Seasonal
G	Intermittently Exposed	U	Unknown

Tidal

K	Artificial	R	Seasonal Tidal
L	Subtidal	S	Temporary Tidal
M	Irregularly Exposed	T	Semipermanent Tidal
N	Regular	V	Permanent Tidal
P	Irregular	U	Unknown

WATER CHEMISTRY

Coastal Salinity

1	Hyperhaline
2	Euhaline
3	Mixohaline (Brackish)
4	Polyhaline
5	Mesohaline
6	Oligohaline
0	Fresh

Inland Salinity

7	Hypersaline
8	Eusaline
9	Mixosaline
0	Fresh

pH Modifiers for all Fresh Water

a	Acid
i	Circumneutral
h	Alkaline

SOIL

g	Organic
n	Mineral

SPECIAL MODIFIERS

b	Beaver	h	Diked/Impounded
d	Partially Drained/Ditched	r	Artificial
f	Farmed	s	Spoil
		x	Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

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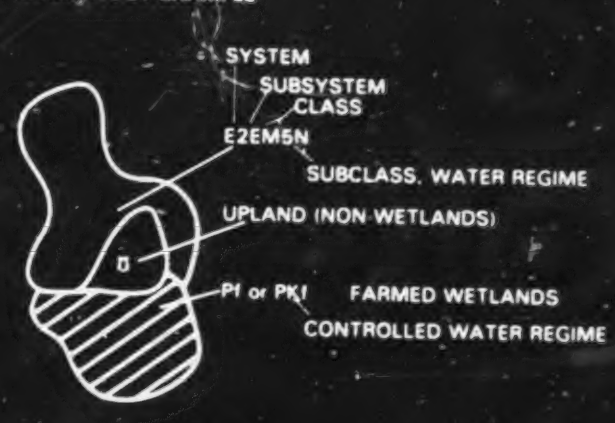

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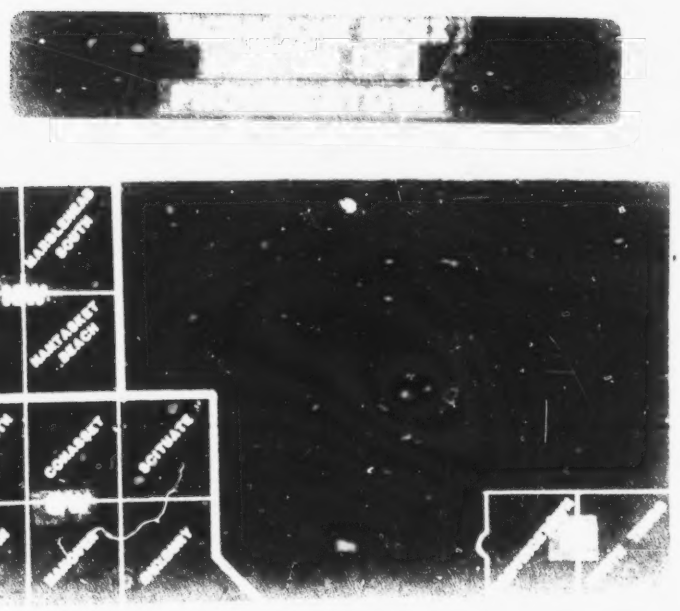

AP 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

WINTHROP
BROAD SOUND
BOSTON CORPORATE BOUNDARY
E2EM
E2FL
M2BB
E2BB
LOGAN INTERNATIONAL AIRPORT
PEM
E2FL
Great Faun
Little Faun
Fort Dawes
Deer Island Light
BOSTON HARBOR
PRESIDENT ROADS
Nubble Channel
Long Island Head
Long Island
Long Island Hospital
Sculpin Ledge
Tidal Flat
Bass Point
West Head
Spectacle Island
Thompson Island
Western Way
E2BB
E2RS
M2BB
Quarantine Rocks
SUFFOLK CO
NORFOLK CO
BOSTON QUINCY
CUMBERLAND CORPORATE
BOUNDARY PERIODIC
Moon Island
Sewage Disposal
Moon Head
E1OWL
Tidal Flat
Hangman Island
Sunken Ledge
NORFOLK CO
PLYMOUTH CO
Light
Gallops Island
The Narrows
Fort Standish
Light
Tidal Flat
Ram Island Head
Black Rock Channel
Bug Light
Georges Island
Fort Warren
Boston Light
Lovells Island
Tidal Flat
Great Brewster Island
Little Brewster Island
Boston Lighthouse
POW
Roaring Bulls
Green Island
Hypocrite Channel
Little Calf Island
Calf Island
Brewster Island
Shag Rocks
M2RS
M10W
South Channel
MASS CHANNEL
SUFFOLK CO
PLYMOUTH CO
BAY
NANTASKET ROADS
Pt Allerton
Nantasket Beach
Windemere
Mariners Park
Allerton Harbor
Hull
Fort Duvall
Hog Island
Inner Spit Rock
Outer Spit Rock
Hull Gut
Light
HULL
HULL BAY
Peddocks Island
Tidal Flat
Prince Head
Light
Harrys Rock
Light
West Gut
Light
Pig Rock
HINGHAM
E2FLN
Sheep Island
Bumkin Island
E2FL
E2RSP
E2FLN
WEYMOUTH
HINGHAM
QUINCY BAY
Nut Island
Squantum Point
Squantum
Squantum Point
Light
Squantum Head
Light
Spiers Rock
Spiers Island
Seal Rock
Moon Island
Moon Head
Tidal Flat
Lower Neck
Upper Neck
Weir River
Light
Raccoon Island
Houghs Neck
Fore River
Quincy
Weymouth
E2EMd
E2FL
E2BB
E2RS
E2FLN
E1OWL
POW
E2EM
E2FL
E2BB
WEIR RIVER
Light
Sunset Point
Light
Lighthouse
Point
Light
Light
Light

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non-photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER/Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	1 Coral 3 Worm	

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	RS ROCKY SHORE	BB BEACH/BAR
1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	1 Coral 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 6 Vegetated Non pioneer	1 Bedrock 2 Boulder 6 Vegetated Non pioneer	1 Cobble Gravel 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Subtidal

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	RF – REEF	OW – OPEN WATER/Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	

2 – Intertidal

AB – AQUATIC BED	RF – REEF	FL – FLAT	SB – STREAMBED	RS – ROCKY SHORE	BB – BEACH/BAR	EM – EMERGENT	SS – SCRUB/SHRUB	FO – FORESTED
1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Needle leaved Evergreen 3 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad leaved Deciduous 2 Broad leaved Evergreen 3 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Tidal	2 – Lower Perennial	3 – Upper Perennial	4 – Intermittent	5 – Unknown Perennial
EM – EMERGENT(1) 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent	RB – ROCK BOTTOM 1 Bedrock 2 Boulder UB – UNCONSOLIDATED BOTTOM 1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	AB – AQUATIC BED 1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface FL – FLAT 1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	SB – STREAMBED 1 Cobble/Gravel 2 Sand 3 Mud 4 Organic RS – ROCKY SHORE 1 Bedrock 2 Boulder BB – BEACH/BAR 1 Cobble/Gravel 2 Sand	OW – OPEN WATER/Unknown Bottom

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM | Ecological Subsystem | CLASS | Subclass

1 – Limnetic

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	OW OPEN WATER/Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	

2 – Littoral

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	RS ROCKY SHORE	BB BEACH/BAR	EM – EMERGENT	OW OPEN WATER/Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Bedrock 2 Boulder	1 Cobble Gravel 2 Sand	2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent	

P – PALUSTRINE

ECOLOGICAL SYSTEM | No Subsystem | CLASS | Subclass

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	FL – FLAT	ML MOSS/LICHEN	EM EMERGENT	SS – SCRUB/SHRUB	FO FORESTED	OW OPEN WATER/Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)			WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS	
Non-Tidal	Tidal		Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water			
A Temporary B Saturated C Seasonal D Seasonal Well-drained E Seasonal Saturated F Semipermanent G Intermittently Exposed	H Permanent J Intermittently Flooded K Artificial Z Intermittently Exposed/Permanent W Intermittently Flooded/Temporary V Saturated/Semipermanent/Seasonal U Unknown	L Subtidal M Irregularly Exposed N Regular P Irregular R Seasonal Tidal S Temporary Tidal T Semipermanent Tidal V Permanent Tidal U Unknown	1 Hyperhaline 3 Euhaline 4 Mixohaline (Brackish) 5 Polyhaline 6 Mesohaline 8 Oligohaline 0 Fresh	7 Hypersaline 8 Eusaline 9 Mixosaline 0 Fresh	a Acid i Circumneutral k Alkaline	o Organic n Mineral	b Beaver d Partially Drained/Ditched f Farmed h Diked/Impounded r Artificial s Spoil x Excavated	

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

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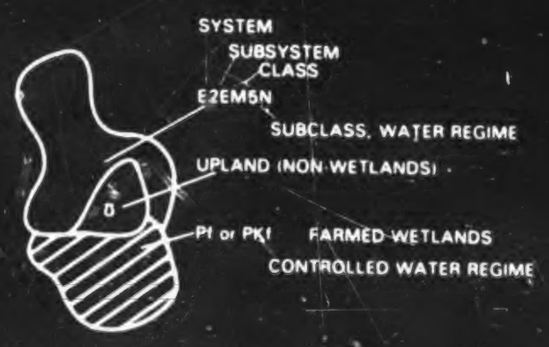
SYMBOLOGY EXAMPLE



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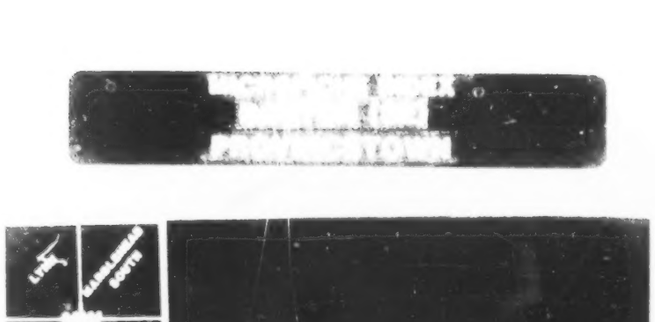
[redacted]



[redacted]

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

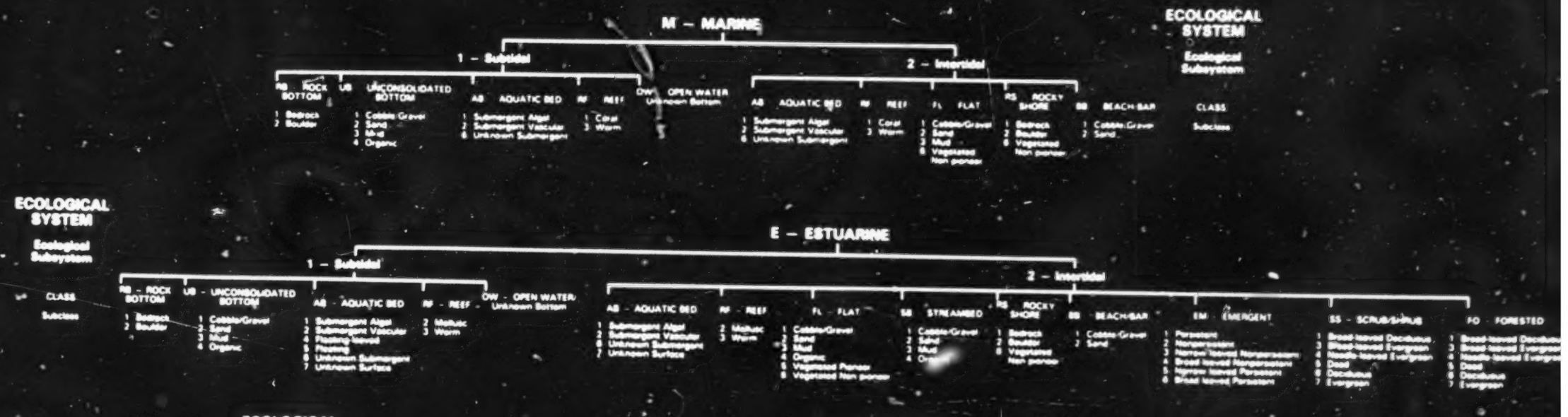
BOSTON SE
PROVINCETOWN

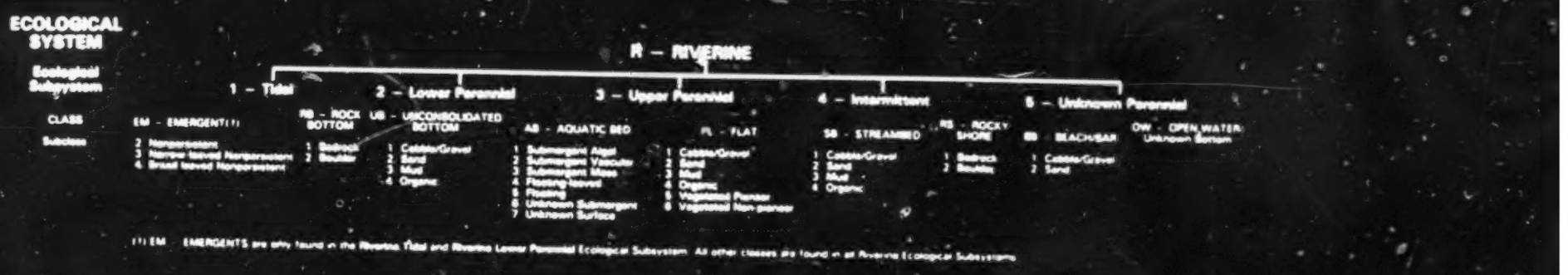
4/77

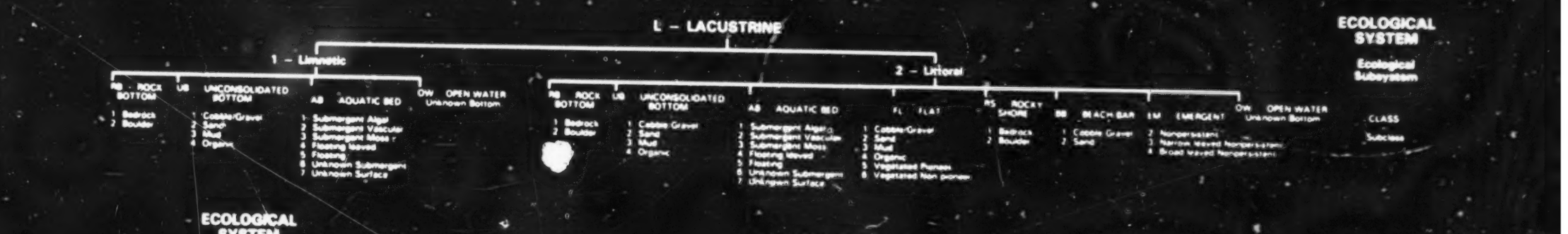
NANTASKET BEACH, MASS.

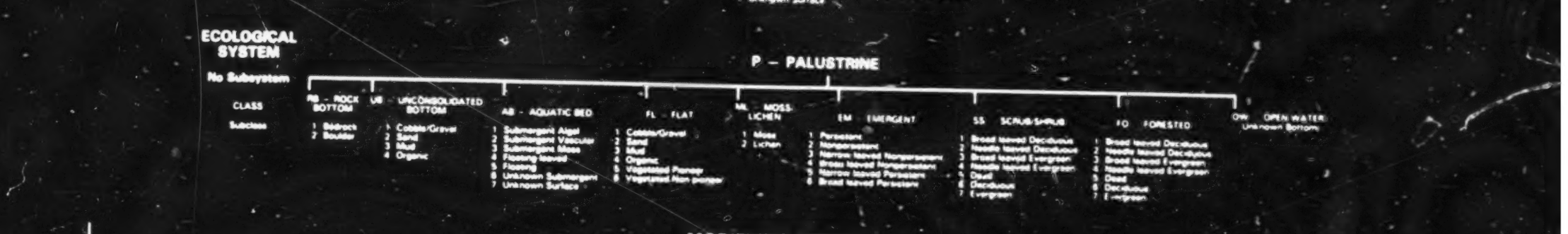
WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.




R – RIVERINE
1 – Tidal
2 – Lower Perennial
3 – Upper Perennial
4 – Intermittent
5 – Unknown Perennial
(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.





MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal		Tidal	
A Temporary	H Permanent	K Artificial	R Seasonal Tidal
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal
C Seasonal	Artificial	M Irregularly Exposed	T Semipermanent Tidal
D Seasonal Well-drained	K Intermittently Exposed/Permanent	N Regular	V Permanent Tidal
E Seasonal Saturated	Y Intermittently Flooded/Temporary	P Irregular	U Unknown
F Semipermanent	Z Saturated/Semipermanent/Seasonal		
G Intermittently Exposed	U Unknown		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	5 Hypersaline	7 Acid
2 Euhaline	6 Eusaline	8 Circumneutral
3 Mixohaline (Brackish)	7 Mixosaline	9 Alkaline
4 Polyhaline	8 Fresh	
5 Mesohaline		
6 Oligohaline		
8 Fresh		

SOIL

0 Organic	
1 Mineral	

SPECIAL MODIFIERS

b Beaver	h Diked/Impounded
d Partially Drained/Ditched	x Farmed
f Farmed	r Artificial
	s Spoil
	n Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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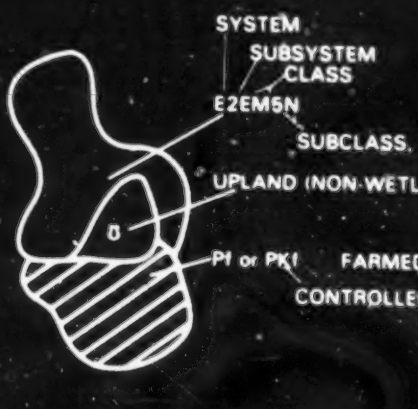
SYMBOLOGY EXAMPLE



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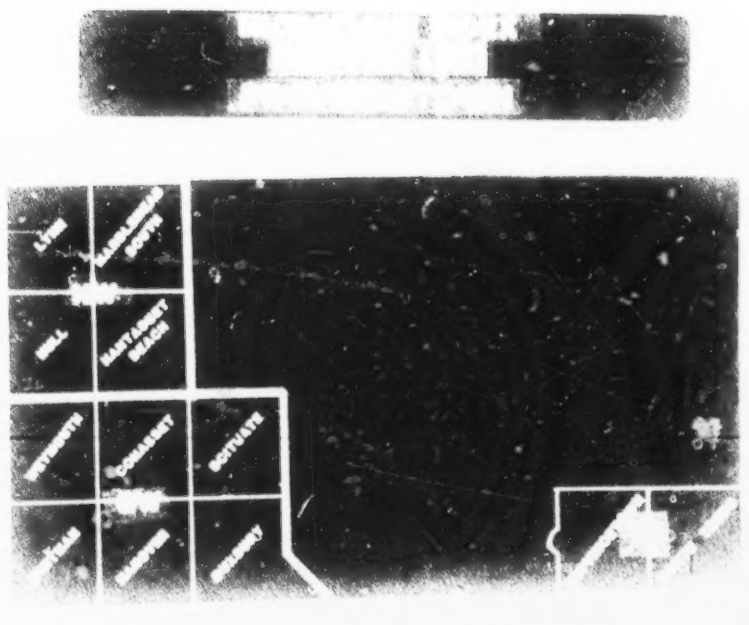
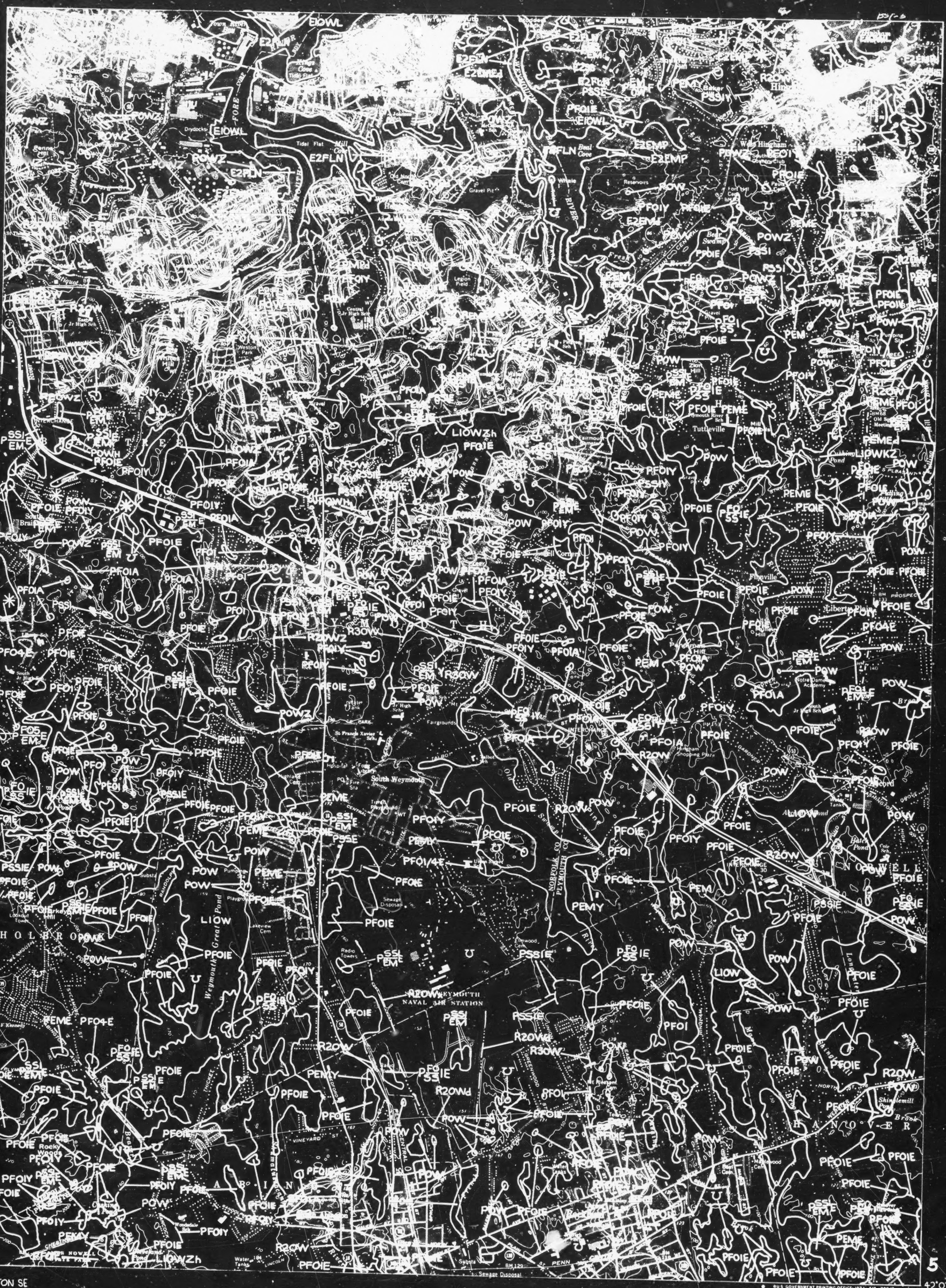


NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR



BOSTON SE
PROVINCETOWN

SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

0 1 KILOMETER

5

42°07'30"

70°52'30"

4/77

WEYMOUTH, MASS.

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM: Ecological Subsystem | CLASS | Subclass

1 – Subtidal

- RS – ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB – AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 3 Unknown Submergent
- RF – REEF: 1 Coral, 3 Worm
- OW – OPEN WATER, Unknown Bottom

2 – Intertidal

- AB – AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 8 Unknown Submergent
- RF – REEF: 1 Coral, 3 Worm
- FL – FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 6 Vegetated Non pioneer
- RS – ROCKY SHORE: 1 Bedrock, 2 Boulder, 6 Vegetated Non pioneer
- BB – BEACH/BAR: 1 Cobble/Gravel, 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM: Ecological Subsystem | CLASS | Subclass

1 – Subtidal

- RS – ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB – AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 3 Floating Vascular, 4 Floating Algae, 5 Unknown Submergent, 6 Unknown Surface
- RF – REEF: 2 Mollusc, 3 Worm
- OW – OPEN WATER, Unknown Bottom

2 – Intertidal

- AB – AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 3 Floating Vascular, 4 Floating Algae, 7 Unknown Surface
- RF – REEF: 2 Mollusc, 3 Worm
- FL – FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 8 Vegetated Non pioneer
- SB – STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- RS – ROCKY SHORE: 1 Bedrock, 2 Boulder, 8 Vegetated Non pioneer
- BB – BEACH/BAR: 1 Cobble/Gravel, 2 Sand
- EM – EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
- SS – SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Broad leaved Evergreen, 3 Needle leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- FO – FORESTED: 1 Broad leaved Deciduous, 2 Broad leaved Evergreen, 3 Needle leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM: Ecological Subsystem | CLASS | Subclass

1 – Tidal | 2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial

- EM – EMERGENT(1): 1 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent
- RS – ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB – AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 3 Floating Vascular, 4 Floating Algae, 5 Unknown Submergent, 7 Unknown Surface
- FL – FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 8 Vegetated Non pioneer
- SB – STREAMBED: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- RS – ROCKY SHORE: 1 Bedrock, 2 Boulder
- BB – BEACH/BAR: 1 Cobble/Gravel, 2 Sand
- OW – OPEN WATER: Unknown Bottom

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L – LACUSTRINE

ECOLOGICAL SYSTEM: Ecological Subsystem | CLASS | Subclass

1 – Limnetic

- RS – ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB – AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 3 Floating Vascular, 4 Floating Algae, 5 Unknown Submergent, 7 Unknown Surface
- OW – OPEN WATER: Unknown Bottom

2 – Littoral

- RS – ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB – AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 3 Submergent Moss, 4 Floating Vascular, 5 Floating Algae, 6 Unknown Submergent, 7 Unknown Surface
- FL – FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 5 Vegetated Pioneer, 6 Vegetated Non pioneer
- RS – ROCKY SHORE: 1 Bedrock, 2 Boulder
- BB – BEACH/BAR: 1 Cobble/Gravel, 2 Sand
- EM – EMERGENT: 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent
- OW – OPEN WATER: Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM: No Subsystem | CLASS | Subclass

- RS – ROCK BOTTOM: 1 Bedrock, 2 Boulder
- UB – UNCONSOLIDATED BOTTOM: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic
- AB – AQUATIC BED: 1 Submergent Algae, 2 Submergent Vascular, 3 Floating Algae, 4 Floating Vascular, 5 Unknown Submergent, 7 Unknown Surface
- FL – FLAT: 1 Cobble/Gravel, 2 Sand, 3 Mud, 4 Organic, 6 Vegetated Pioneer, 8 Vegetated Non pioneer
- ML – MOSS/LICHEN: 1 Moss, 2 Lichen
- EM – EMERGENT: 1 Persistent, 2 Nonpersistent, 3 Narrow leaved Nonpersistent, 4 Broad leaved Nonpersistent, 5 Narrow leaved Persistent, 6 Broad leaved Persistent
- SS – SCRUB/SHRUB: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- FO – FORESTED: 1 Broad leaved Deciduous, 2 Needle leaved Deciduous, 3 Broad leaved Evergreen, 4 Needle leaved Evergreen, 5 Dead, 6 Deciduous, 7 Evergreen
- OW – OPEN WATER: Unknown Bottom

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WATER REGIME(1)						WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS
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A Temporary	H Permanent	K Artificial	R Seasonal Tidal			1 Hypersaline	5 Hypersaline	6 Acid	g Organic	c Beaver
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal			2 Eusaline	6 Eusaline	7 Circumneutral	m Mineral	d Partially Drained/Ditched
C Seasonal	K Artificial	M Irregularly Exposed	T Semipermanent Tidal			3 Polyhaline (Brackish)	7 Polyhaline	8 Alkaline		f Farmed
D Nontidal Well-drained	N Semipermanent	P Regular	U Permanent Tidal			4 Mesohaline	8 Mesohaline			h Diked/Impounded
E Seasonal Saturated	W Intermittently Exposed/Permanent		V Unknown			5 Oligohaline	9 Fresh			r Artificial
F Temporary Flooded	Z Intermittently Flooded/Temporary					6 Fresh				s Spoil
G Intermittently Exposed	U Unknown					9 Subhaline				x Excavated
						0 Oligohaline				
						Mixosaline				

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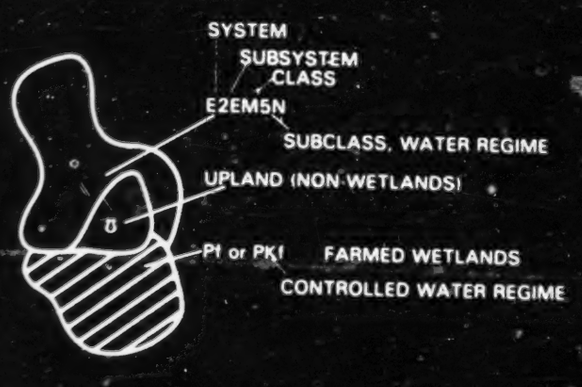

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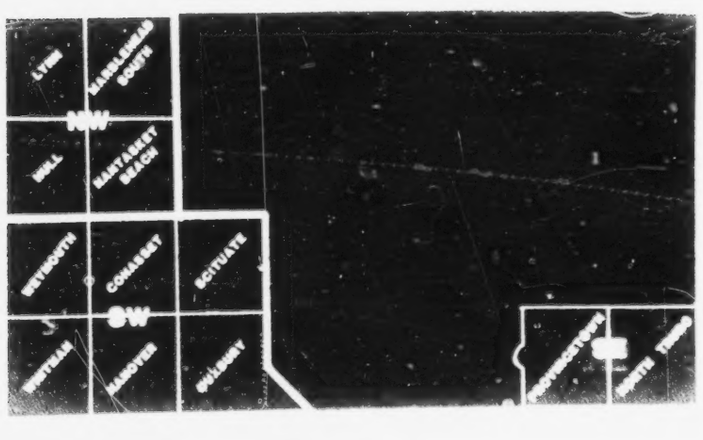
MICROFICHE INDEX
BOSTON (SE)
PROVINCETOWN



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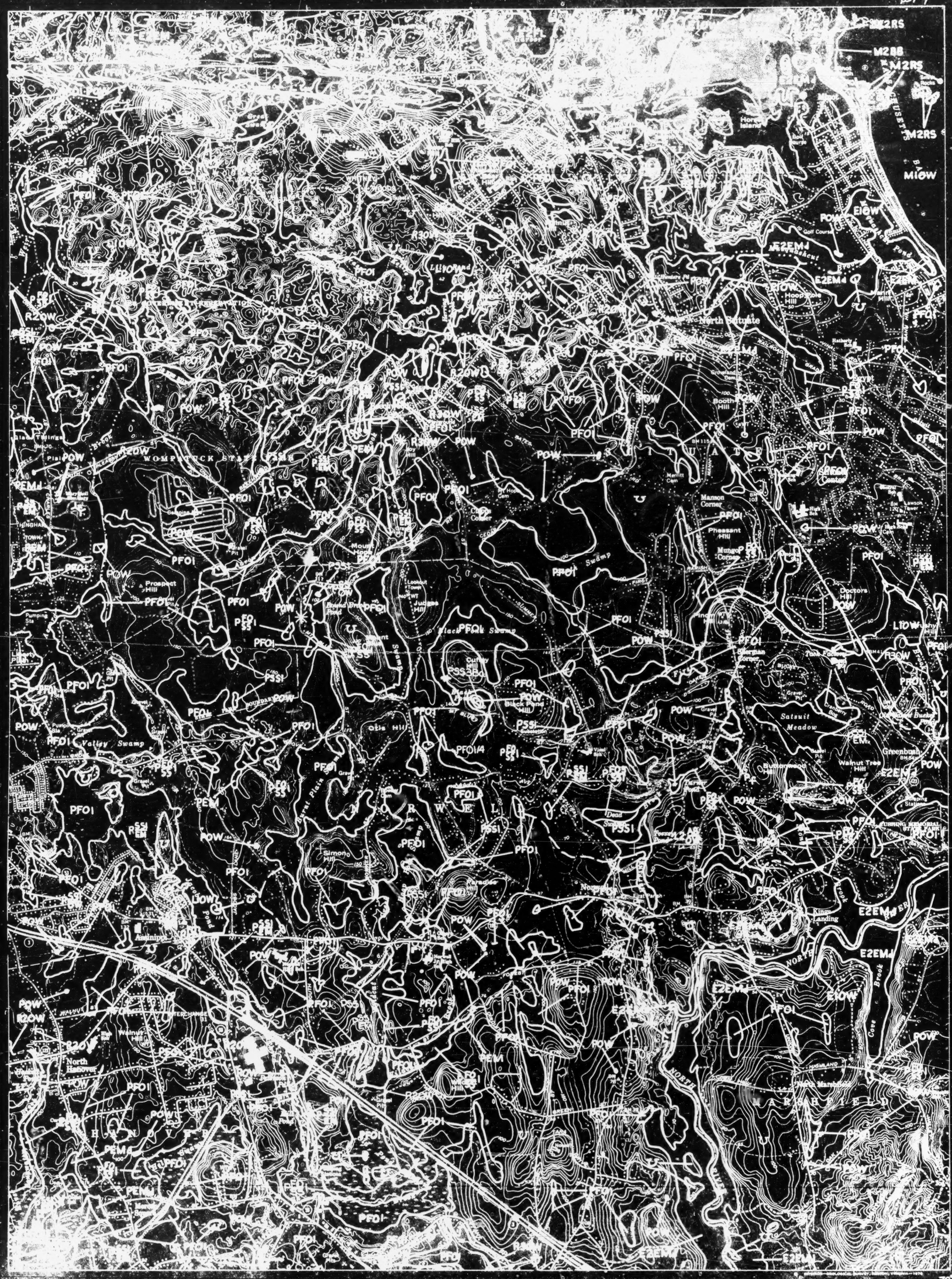
NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

BST-1



BOSTON SE
PROVINCETOWN

4/77.

COHASSET, MASS

6

42°07'30"
70°45

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM: Ecological Subsystem | CLASS | Subclass

1 – Subtidal

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	RF – REEF	OW – OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Unknown Submergent	1 Coral 2 Worm	

2 – Intertidal

AB – AQUATIC BED	RF – REEF	FL – FLAT	RS – ROCKY SHORE	RB – BEACH/BAR
1 Submergent Algal 2 Submergent Vascular 3 Unknown Submergent	1 Coral 2 Worm	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non-pioneer	1 Bedrock 2 Boulder 3 Vegetated Non-pioneer	1 Cobble-Gravel 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM: Ecological Subsystem | CLASS | Subclass

1 – Subtidal

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	RF – REEF	OW – OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Floating Algal 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Mollusc 2 Worm	

2 – Intertidal

AB – AQUATIC BED	RF – REEF	FL – FLAT	SB – STREAMBED	RS – ROCKY SHORE	RB – BEACH/BAR	EM – EMERGENT	SS – SCRUB/SHRUB	FO – FORESTED
1 Submergent Algal 2 Submergent Vascular 3 Unknown Submergent 7 Unknown Surface	1 Mollusc 2 Worm	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non-pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder 3 Vegetated Non-pioneer	1 Cobble-Gravel 2 Sand	1 Persistent 2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent 5 Narrow-leaved Persistent 6 Broad-leaved Persistent	1 Broad-leaved Deciduous 2 Broad-leaved Evergreen 3 Needle-leaved Deciduous 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-leaved Deciduous 2 Broad-leaved Evergreen 3 Needle-leaved Deciduous 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM: Ecological Subsystem | CLASS | Subclass

1 – Tidal	2 – Lower Perennial	3 – Upper Perennial	4 – Intermittent	5 – Unknown Perennial
EM – EMERGENT(1) 1 Nonpersistent 2 Narrow-leaved Nonpersistent 3 Broad-leaved Nonpersistent	RS – ROCK BOTTOM 1 Bedrock 2 Boulder UB – UNCONSOLIDATED BOTTOM 1 Cobble/Gravel 2 Sand 3 Mud 4 Organic AB – AQUATIC BED 1 Submergent Algal 2 Submergent Vascular 3 Floating Algal 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	FL – FLAT 1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non-pioneer	SB – STREAMBED 1 Cobble/Gravel 2 Sand 3 Mud 4 Organic RS – ROCKY SHORE 1 Bedrock 2 Boulder RB – BEACH/BAR 1 Cobble-Gravel 2 Sand	OW – OPEN WATER/ Unknown Bottom

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems

L – LACUSTRINE

ECOLOGICAL SYSTEM: Ecological Subsystem | CLASS | Subclass

1 – Limnetic	2 – Littoral
RS – ROCK BOTTOM 1 Bedrock 2 Boulder UB – UNCONSOLIDATED BOTTOM 1 Cobble/Gravel 2 Sand 3 Mud 4 Organic AB – AQUATIC BED 1 Submergent Algal 2 Submergent Vascular 3 Floating Algal 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface OW – OPEN WATER Unknown Bottom	RB – ROCK BOTTOM 1 Bedrock 2 Boulder UB – UNCONSOLIDATED BOTTOM 1 Cobble-Gravel 2 Sand 3 Mud 4 Organic AB – AQUATIC BED 1 Submergent Algal 2 Submergent Vascular 3 Floating Algal 4 Floating Vascular 5 Unknown Submergent 7 Unknown Surface FL – FLAT 1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non-pioneer RS – ROCKY SHORE 1 Bedrock 2 Boulder RB – BEACH/BAR 1 Cobble Gravel 2 Sand EM – EMERGENT 1 Nonpersistent 2 Broad-leaved Nonpersistent OW – OPEN WATER Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM: No Subsystem | CLASS | Subclass

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	FL – FLAT	ML – MOSS-LICHEN	EM – EMERGENT	SS – SCRUB/SHRUB	FO – FORESTED	OW – OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating Algal 5 Floating Vascular 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non-pioneer	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent 5 Narrow-leaved Persistent 6 Broad-leaved Persistent	1 Broad-leaved Deciduous 2 Needle-leaved Deciduous 3 Broad-leaved Evergreen 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-leaved Deciduous 2 Needle-leaved Deciduous 3 Broad-leaved Evergreen 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	Unknown Bottom

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)				WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS	
Non-Tidal		Tidal		Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water			
A Temporary	H Permanent	K Artificial	R Seasonal Tidal	1 Hyperhaline	2 Hyperhaline	6 Acid	0 Organic	b Beaver	h Diked/Impounded
B Saturated	J Intermittently Flooded	L Subtidal	T Temporary Tidal	2 Euhaline	3 Eusaline	7 Circumneutral	1 Mineral	d Partially Drained/Ditched	r Artificial
C Seasonal		M Irregularly Exposed	V Permanent Tidal	3 Mixohaline (Brackish)	4 Mesohaline	8 Alkaline		f Farmed	s Spoil
D Seasonal Well-drained	Y Saturated/Temporary	N Regular	U Unknown	4 Polyhaline	5 Oligohaline				x Excavated
E Seasonal Saturated	Z Artificial/Permanent	P Irregular		5 Mesohaline	6 Fresh				
F Semipermanent				6 Oligohaline					
G Intermittently Exposed				7 Fresh					
H Permanent									
U Unknown									

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with Classification of Wetlands and Deep-Water Habitats of the United States (An Operational Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

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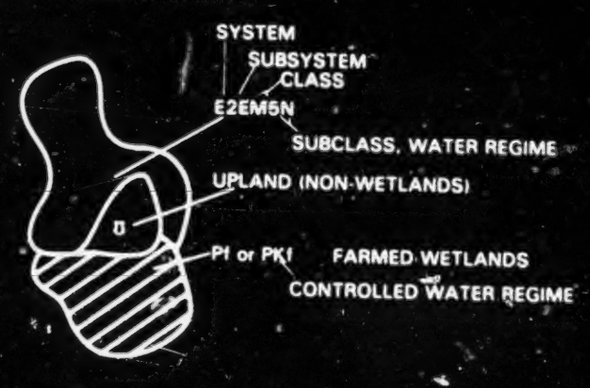
SYMBOLOGY EXAMPLE



NOTES TO THE USER

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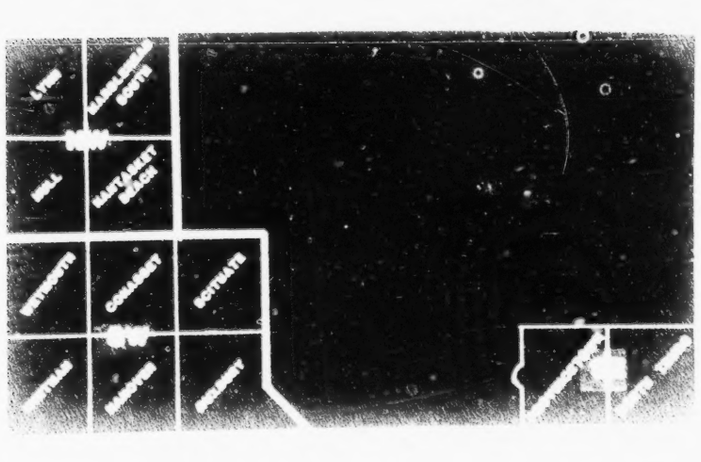

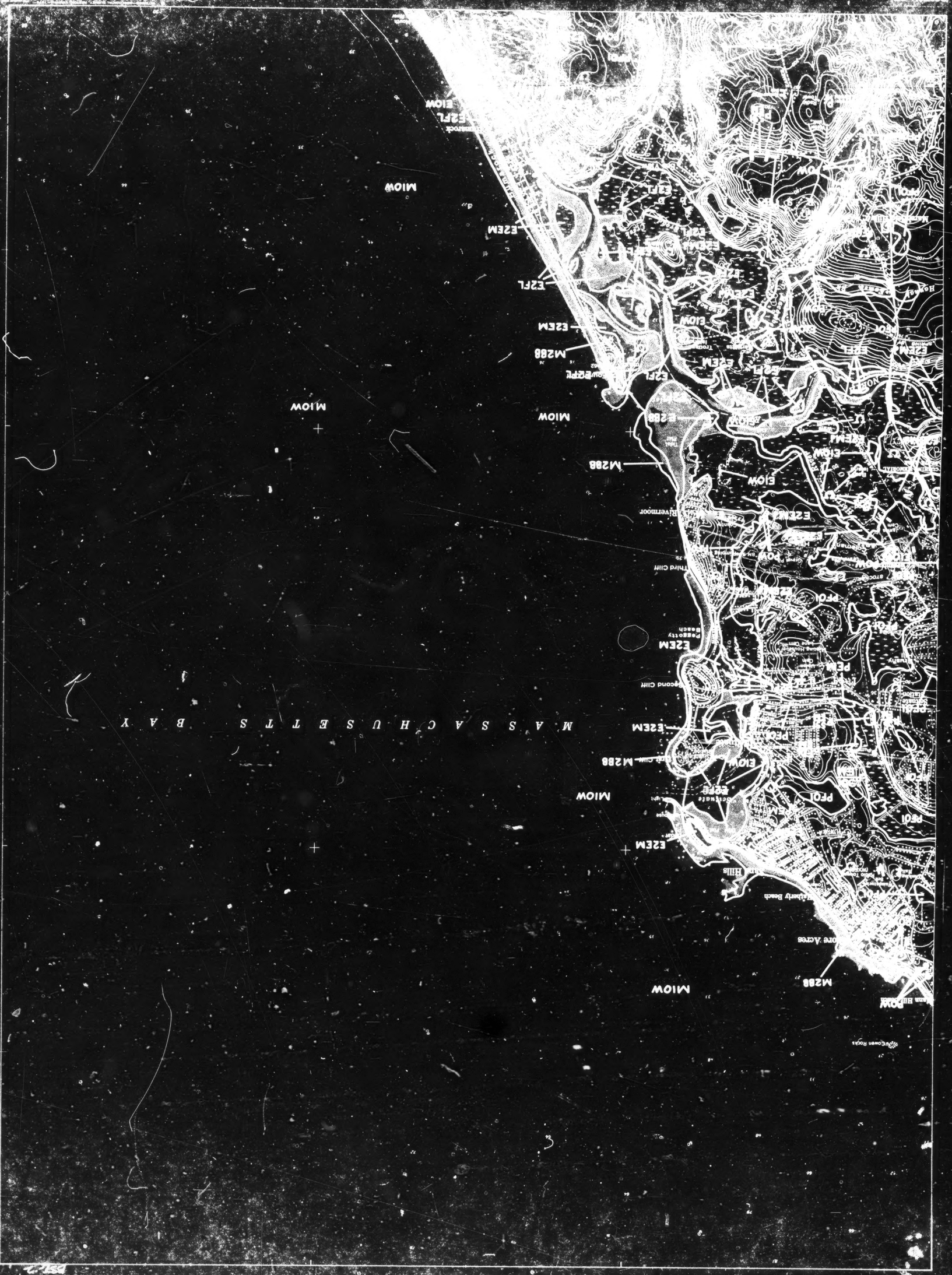
M10W
E2EM
E2FL
M28B
E10W
PFOI
PEMI
MASSACHUSETTS BAY

WETLAND LEGEND

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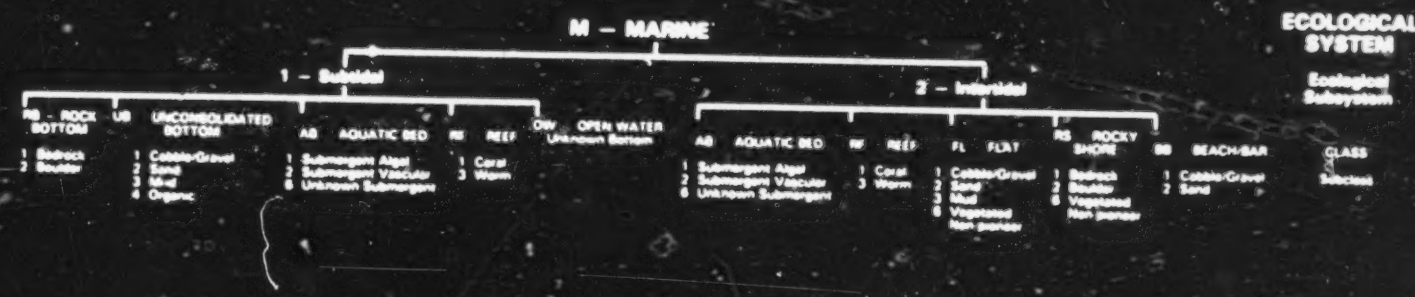

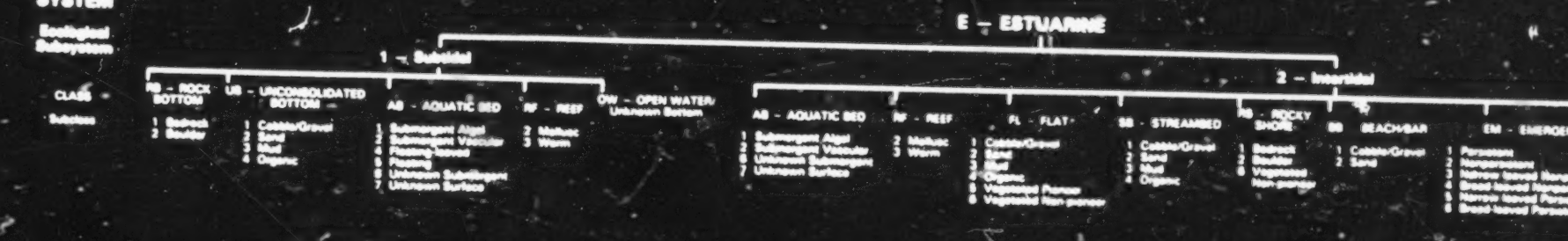

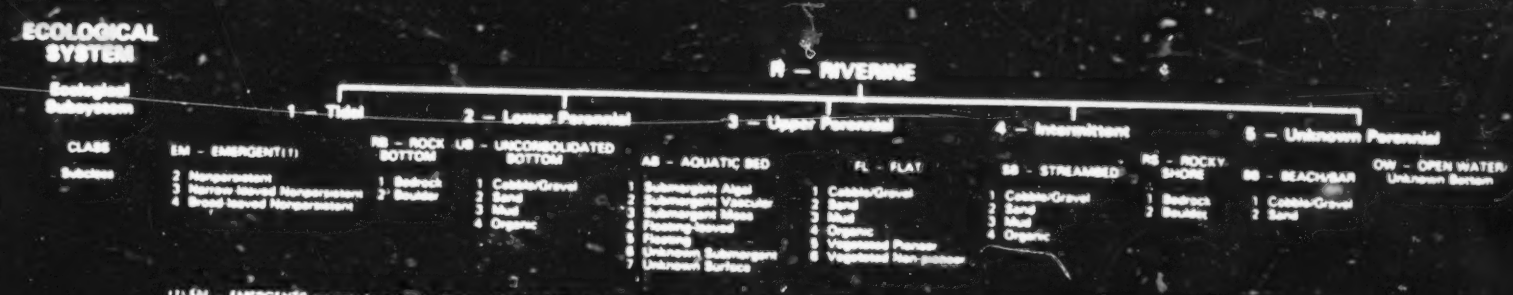

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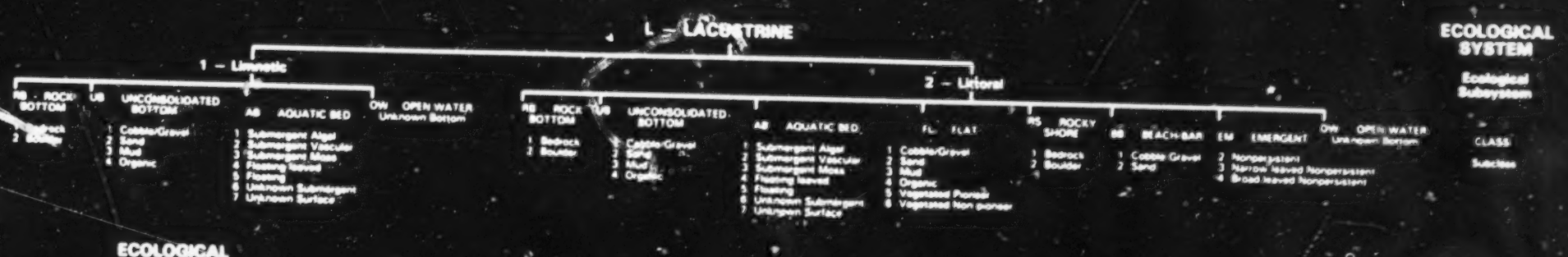

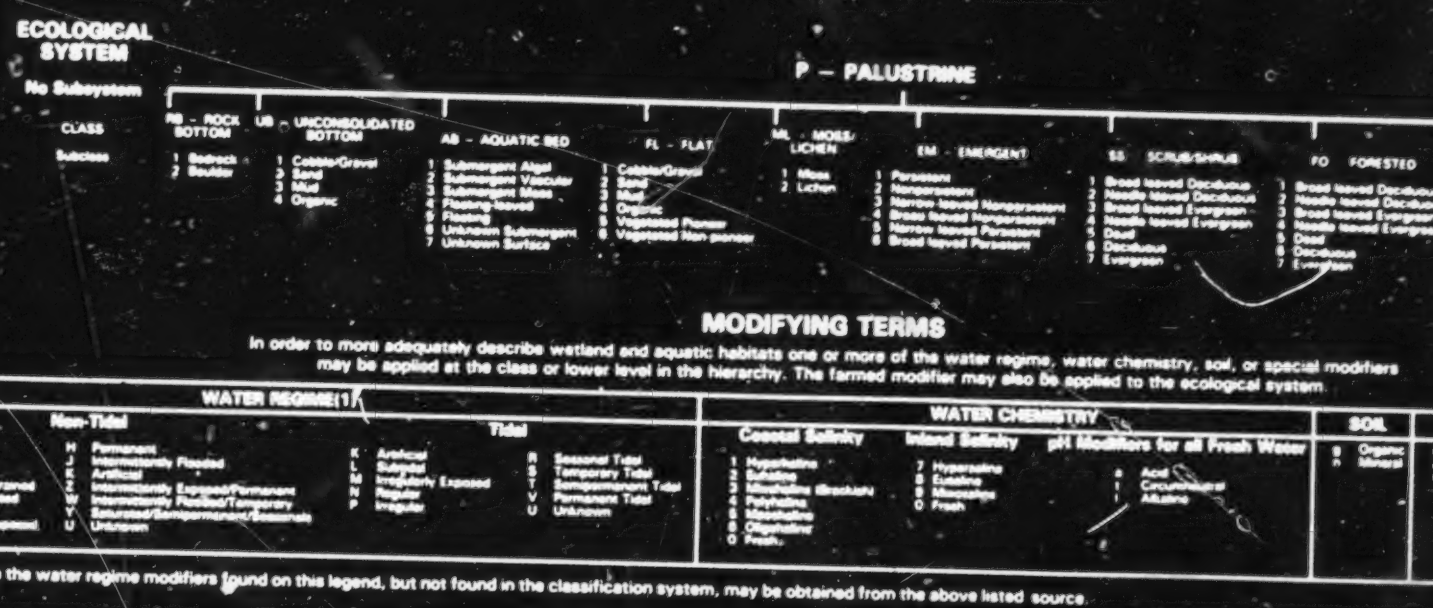

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WATER REGIME(1)

Non-Tidal		Tidal		Tidal
A Temporary	H Permanent	K Artificial	R Seasonal Tidal	
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal	
C Seasonal	K Artificial	M Irregularly Exposed	T Semipermanent Tidal	
D Seasonal Well-drained	Z Intermittently Exposed/Permanent	N Regular	V Permanent Tidal	
E Seasonal Saturated	W Intermittently Flooded/Temporary	P Irregular	U Unknown	
F Semipermanent	Y Saturated/Semipermanent/Seasonal			
G Intermittently Exposed	U Unknown			

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hypersaline	a Acid
2 Eusaline	8 Eusaline	i Circumneutral
3 Fresh-Mixohaline (Brackish)	9 Mixosaline	j Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

8	Organic
n	Mineral

SPECIAL MODIFIERS

b	Beaver	h	Diked/Impounded
d	Partially Drained/Ditched	r	Artificial
f	Farmed	s	Spoil
		x	Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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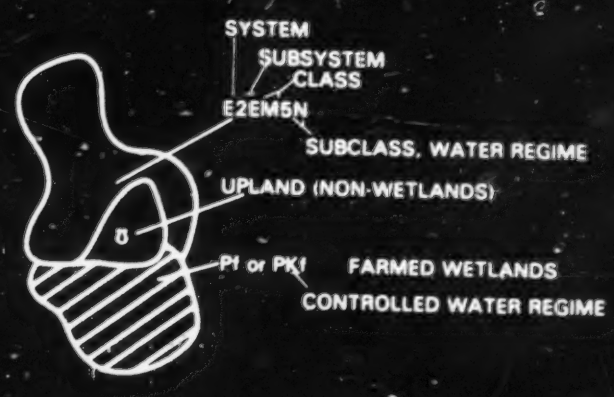
SYMBOLOGY EXAMPLE



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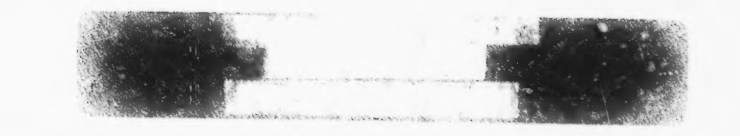

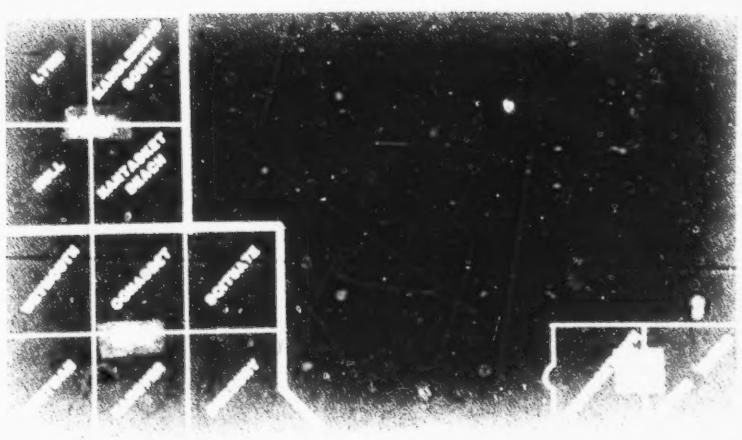

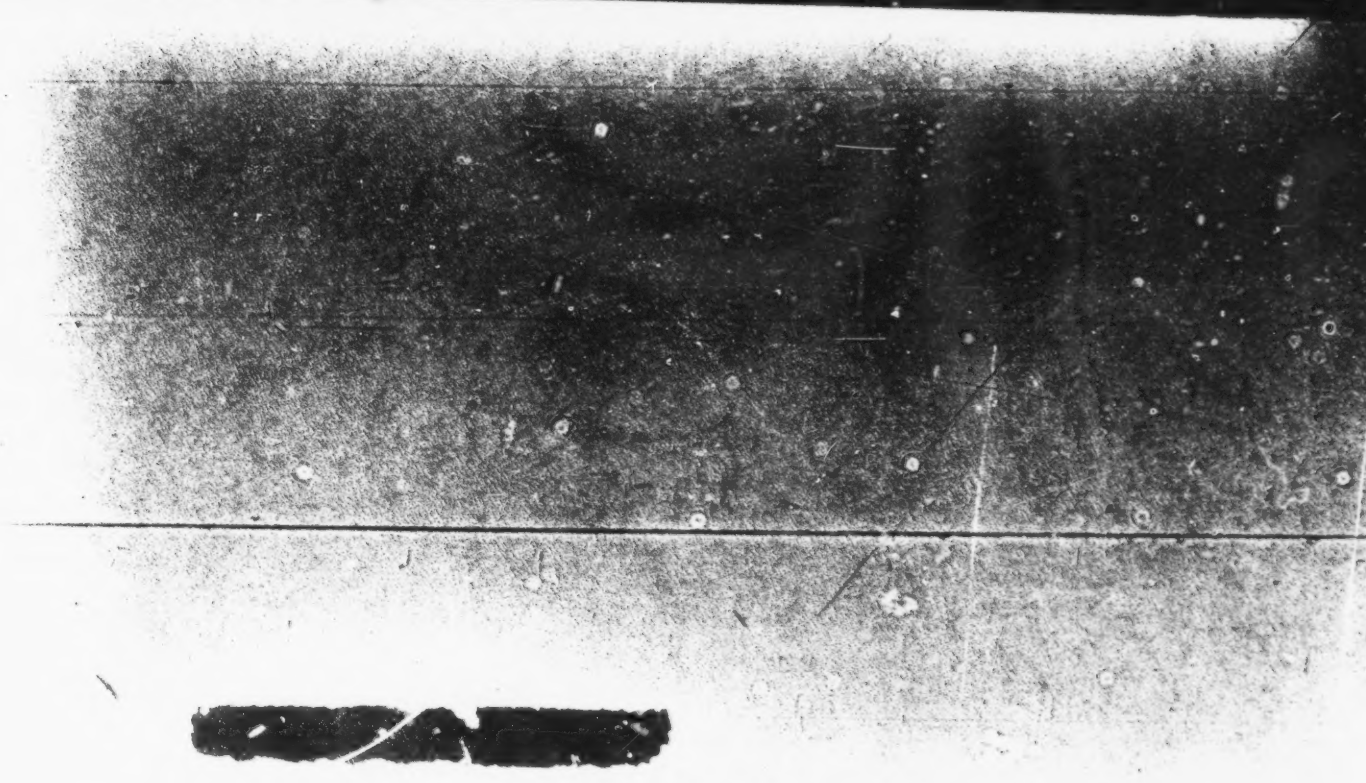

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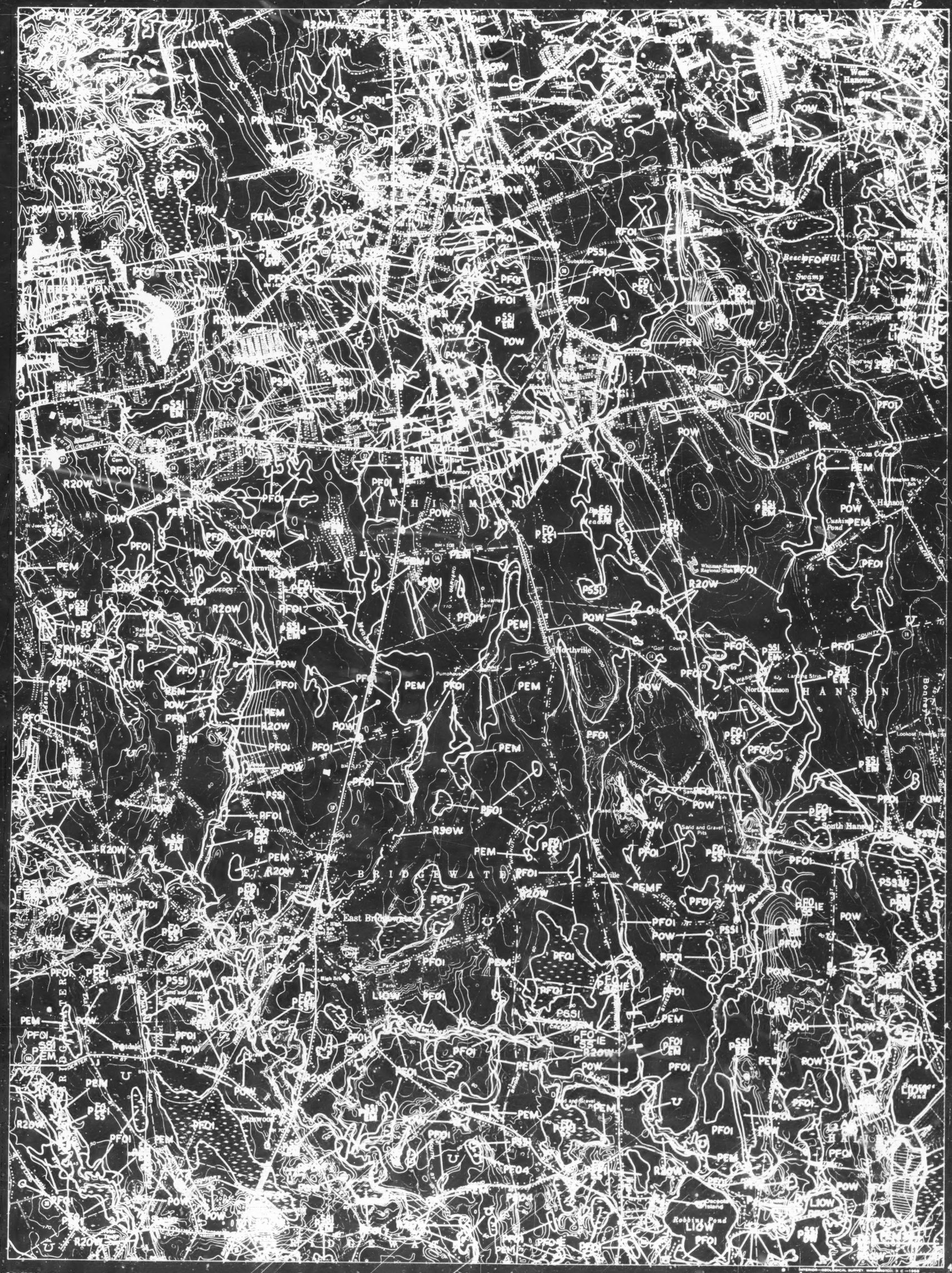
NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

B7-6



BOSTON SE
PROVINCETOWN

SCALE 1:24000

1000' 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

42°00'

70°52'30"

4/77

WHITMAN, MASS.

8

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

RS – ROCK BOTTOM
1 Bedrock
2 Boulder

UB – UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB – AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
6 Unknown Submergent

RF – REEF
1 Coral
3 Worm

OW – OPEN WATER
Unknown Bottom

2 – Intertidal

AB – AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
6 Unknown Submergent

RF – REEF
1 Coral
3 Worm

FL – FLAT
1 Cobble-Gravel
2 Sand
3 Mud
6 Vegetated Non-pioneer

RS – ROCKY SHORE
1 Bedrock
2 Boulder
6 Vegetated Non-pioneer

BB – BEACH-BAR
1 Cobble-Gravel
2 Sand

CLASS
Subclass

E – ESTUARINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Subtidal

RS – ROCK BOTTOM
1 Bedrock
2 Boulder

UB – UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB – AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Floating Vascular
4 Floating Algal
5 Unknown Submergent
6 Unknown Surface

RF – REEF
2 Mollusc
3 Worm

OW – OPEN WATER
Unknown Bottom

2 – Intertidal

AB – AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
6 Unknown Submergent
7 Unknown Surface

RF – REEF
2 Mollusc
3 Worm

FL – FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
6 Vegetated Non-pioneer

SB – STREAMBED
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

RS – ROCKY SHORE
1 Bedrock
2 Boulder
6 Vegetated Non-pioneer

BB – BEACH-BAR
1 Cobble-Gravel
2 Sand

EM – EMERGENT
1 Persistent
2 Nonpersistent
3 Narrow-leaved Nonpersistent
4 Broad-leaved Nonpersistent
5 Narrow-leaved Persistent
6 Broad-leaved Persistent

SS – SCRUB-SHRUB
1 Broad-leaved Deciduous
2 Broad-leaved Evergreen
3 Needle-leaved Deciduous
4 Needle-leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

FO – FORESTED
1 Broad-leaved Deciduous
2 Broad-leaved Evergreen
3 Needle-leaved Deciduous
4 Needle-leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Tidal
2 – Lower Perennial
3 – Upper Perennial
4 – Intermittent
5 – Unknown Perennial

EM – EMERGENT(1)
1 Nonpersistent
2 Narrow-leaved Nonpersistent
3 Broad-leaved Nonpersistent

RS – ROCK BOTTOM
1 Bedrock
2 Boulder

UB – UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB – AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Floating Vascular
4 Floating Algal
5 Unknown Submergent
7 Unknown Surface

FL – FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non-pioneer

SB – STREAMBED
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

RS – ROCKY SHORE
1 Bedrock
2 Boulder

BB – BEACH-BAR
1 Cobble-Gravel
2 Sand

OW – OPEN WATER
Unknown Bottom

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L – LACUSTRINE

ECOLOGICAL SYSTEM
Ecological Subsystem
CLASS
Subclass

1 – Limnetic

RS – ROCK BOTTOM
1 Bedrock
2 Boulder

UB – UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB – AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating Vascular
5 Floating
6 Unknown Submergent
7 Unknown Surface

OW – OPEN WATER
Unknown Bottom

2 – Litoral

RS – ROCK BOTTOM
1 Bedrock
2 Boulder

UB – UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB – AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Submergent Moss
4 Floating Vascular
5 Floating
6 Unknown Submergent
7 Unknown Surface

FL – FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non-pioneer

RS – ROCKY SHORE
1 Bedrock
2 Boulder

BB – BEACH-BAR
1 Cobble-Gravel
2 Sand

EM – EMERGENT
1 Persistent
2 Nonpersistent
3 Narrow-leaved Nonpersistent
4 Broad-leaved Nonpersistent

OW – OPEN WATER
Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM
No Subsystem
CLASS
Subclass

RS – ROCK BOTTOM
1 Bedrock
2 Boulder

UB – UNCONSOLIDATED BOTTOM
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic

AB – AQUATIC BED
1 Submergent Algal
2 Submergent Vascular
3 Floating Vascular
4 Floating Algal
5 Unknown Submergent
7 Unknown Surface

FL – FLAT
1 Cobble-Gravel
2 Sand
3 Mud
4 Organic
5 Vegetated Pioneer
6 Vegetated Non-pioneer

ML – MOSS-LICHEN
1 Moss
2 Lichen

EM – EMERGENT
1 Persistent
2 Nonpersistent
3 Narrow-leaved Nonpersistent
4 Broad-leaved Nonpersistent
5 Narrow-leaved Persistent
6 Broad-leaved Persistent

SS – SCRUB-SHRUB
1 Broad-leaved Deciduous
2 Broad-leaved Evergreen
3 Needle-leaved Deciduous
4 Needle-leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

FO – FORESTED
1 Broad-leaved Deciduous
2 Broad-leaved Evergreen
3 Needle-leaved Deciduous
4 Needle-leaved Evergreen
5 Dead
6 Deciduous
7 Evergreen

OW – OPEN WATER
Unknown Bottom

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal
A Temporary
B Saturated
C Seasonal
D Seasonal-Well-drained
E Seasonal-Saturated
F Artificial
G Intermittently Exposed

Tidal
H Permanent
J Intermittently Flooded
K Artificial
L Subtidal
M Irregularly Exposed
N Regularly Flooded
P Irregularly Flooded

Tidal
R Semipermanent/Permanent
S Intermittently Flooded/Temporary
T A Saline
U Unknown

Tidal
V Seasonal Tidal
W Temporary Tidal
X Semipermanent Tidal
Y Permanent Tidal
Z Unknown

WATER CHEMISTRY

Coastal Salinity
1 Hyperhaline
2 Euhaline
3 Mixohaline (Brackish)
4 Polyhaline
5 Mesohaline
6 Oligohaline
7 Fresh

Inland Salinity
0 Hypersaline
1 Eusaline
2 Mesosaline
3 Fresh

pH Modifiers for all Fresh Water
4 Acid
5 Circumneutral
6 Alkaline

SOIL

B Organic
C Mineral

SPECIAL MODIFIERS

b Beaver
d Partially Drained/Ditched
f Farmed
h Diked/Impounded
r Artificial
s Spoil
x Excavated

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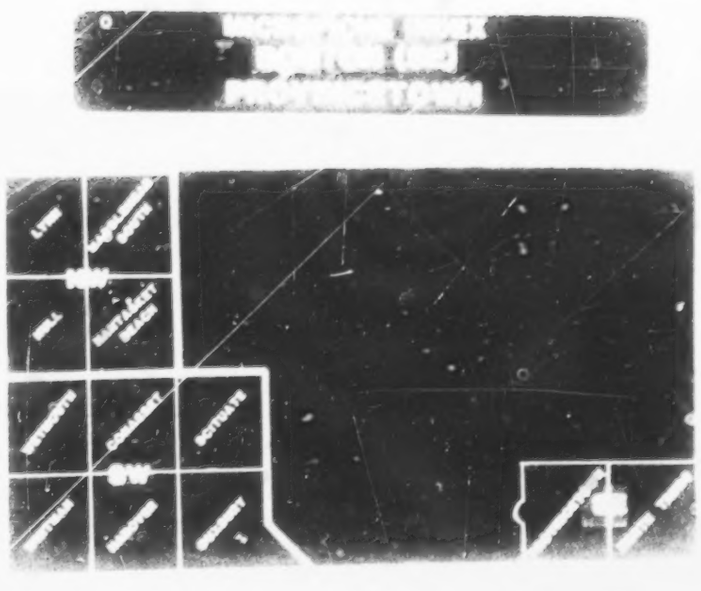

AF 14064C-D

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

BOSTON SE
PROVINCETOWN

4/77

HANOVER, MASS

42°00'
70°45'

SCALE 1:24,000

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM: Ecological Subsystem: CLASS: Subclass

1 – Subtidal

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	RF – REEF	OW – OPEN WATER
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 8 Unknown Submergent	1 Coral 3 Worm	Unknown Bottom

2 – Intertidal

AB – AQUATIC BED	RF – REEF	FL – FLAT	RS – ROCKY SHORE	BB – BEACH-BAR
1 Submergent Algal 2 Submergent Vascular 8 Unknown Submergent	1 Coral 3 Worm	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 6 Vegetated Non pioneer	1 Bedrock 2 Boulder 6 Vegetated Non pioneer	1 Cobble-Gravel 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM: Ecological Subsystem: CLASS: Subclass

1 – Subtidal

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	RF – REEF	OW – OPEN WATER
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 5 Floating-leaved 6 Floating 8 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	Unknown Bottom

2 – Intertidal

AB – AQUATIC BED	RF – REEF	FL – FLAT	SB – STREAMBED	RS – ROCKY SHORE	BB – BEACH-BAR
1 Submergent Algal 2 Submergent Vascular 7 Unknown Surface	2 Mollusc 3 Worm	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 6 Vegetated Pioneer 8 Vegetated Non pioneer	1 Cobble-Gravel 2 Sand 4 Organic	1 Bedrock 2 Boulder Non pioneer	1 Cobble-Gravel 2 Sand

EM – EMERGENT	SS – SCRUB-SHRUB	FO – FORESTED
1 Persistent 2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent 5 Narrow-leaved Persistent 6 Broad-leaved Persistent	1 Broad-leaved Deciduous 2 Broad-leaved Evergreen 3 Needle-leaved Deciduous 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-leaved Deciduous 2 Broad-leaved Evergreen 3 Needle-leaved Deciduous 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM: Ecological Subsystem: CLASS: Subclass

1 – Tidal | 2 – Lower Perennial | 3 – Upper Perennial | 4 – Intermittent | 5 – Unknown Perennial

EM – EMERGENT(1)	RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	FL – FLAT
2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent	1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 5 Floating-leaved 6 Floating 8 Unknown Submergent 7 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 6 Vegetated Pioneer 8 Vegetated Non pioneer

SB – STREAMBED	RS – ROCKY SHORE	BB – BEACH-BAR	OW – OPEN WATER
1 Cobble-Gravel 2 Sand 4 Organic	1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand	Unknown Bottom

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM: Ecological Subsystem: CLASS: Subclass

1 – Limnetic

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	OW – OPEN WATER
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 5 Floating-leaved 6 Floating 8 Unknown Submergent 7 Unknown Surface	Unknown Bottom

2 – Littoral

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	FL – FLAT
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 5 Floating-leaved 6 Floating 8 Unknown Submergent 7 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 6 Vegetated Pioneer 8 Vegetated Non pioneer

RS – ROCKY SHORE	BB – BEACH-BAR	EM – EMERGENT	OW – OPEN WATER
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand	2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent	Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM: No Subsystem: CLASS: Subclass

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	FL – FLAT	ML – MOSS-LICHEN
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 5 Floating-leaved 6 Floating 8 Unknown Submergent 7 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 6 Vegetated Pioneer 8 Vegetated Non pioneer	1 Moss 2 Lichen

EM – EMERGENT	SS – SCRUB-SHRUB	FO – FORESTED	OW – OPEN WATER
1 Persistent 2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent 5 Narrow-leaved Persistent 6 Broad-leaved Persistent	1 Broad-leaved Deciduous 2 Broad-leaved Evergreen 3 Needle-leaved Deciduous 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-leaved Deciduous 2 Broad-leaved Evergreen 3 Needle-leaved Deciduous 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	Unknown Bottom

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal	Tidal
A Temporary B Saturated C Seasonal D Seasonal Well-drained E Seasonal Saturated F Semipermanent G Intermittently Exposed	J Permanent K Intermittently Flooded L Artificial M Intermittently Exposed/Permanent N Intermittently Flooded/Temporary P Intermittently Flooded/Semipermanent/Seasonal U Unknown	R Artificial S Subtidal T Irregularly Exposed V Regular W Irregular X Seasonal Tidal Y Temporary Tidal Z Semipermanent Tidal U Unknown

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline 2 Euhaline 3 Mixohaline (Brackish) 4 Polyhaline 5 Mesohaline 6 Oligohaline 0 Fresh	7 Hypersaline 8 Eusaline 9 Subsaline 0 Fresh	a Acid c Circumneutral b Alkaline

SOIL

0 Organic 1 Mineral

SPECIAL MODIFIERS

b Beaver f Partially Drained/Ditched h Farmed	r Diked/Impounded s Artificial x Spoil z Excavated

(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

SPECIAL NOTE

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SYMBOLOGY EXAMPLE

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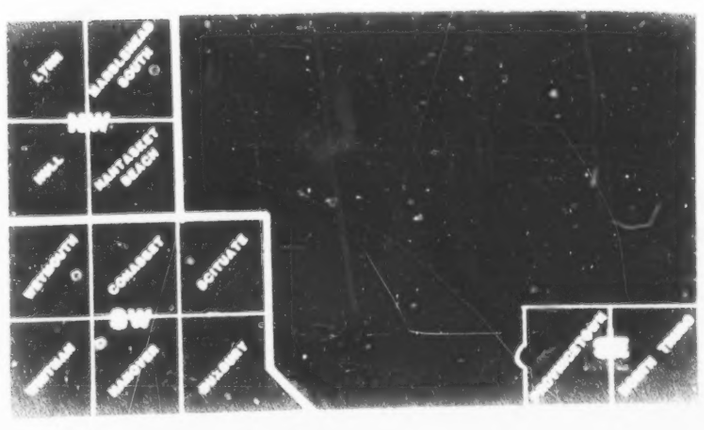

NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

E2FL
M2RS
M1OW
E1OW
R2OW
PEM
PSS
PFO
POW
LIOW
E2EM
E2FL
M2FL
E2RS
E2BR
E2BB
E2SS
E2AB
E2EMd
PEMd
PSSd
PSSd
PSS

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER	
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	2 Mollusc 3 Worm	Unknown Bottom	

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	RS ROCKY SHORE	BB BEACH BAR	EM EMERGENT	SS SCRUB-SHRUB	
1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	1 Coral 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 6 Vegetated Non-pioneer	1 Bedrock 2 Boulder 6 Vegetated Non-pioneer	1 Cobble Gravel 2 Sand	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	

E – ESTUARINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER	
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	Unknown Bottom	

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	SB STREAMBED	RS ROCKY SHORE	BB BEACH BAR	EM EMERGENT	SS SCRUB-SHRUB		
1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder 6 Vegetated Non pioneer	1 Cobble Gravel 2 Sand	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen		

R – RIVERINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Tidal		2 – Lower Perennial		3 – Upper Perennial		4 – Intermittent		5 – Unknown Perennial	
EM EMERGENT(1)		RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	SB STREAMBED	RS ROCKY SHORE	BB BEACH BAR	OW OPEN WATER
2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent		1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand	Unknown Bottom

(1) EM - EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Limnetic

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	OW OPEN WATER
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	Unknown Bottom

2 – Littoral

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	RS ROCKY SHORE	BB BEACH BAR	EM EMERGENT	OW OPEN WATER
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Bedrock 2 Boulder	1 Cobble Gravel 2 Sand	2 Nonpersistent 1 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent	Unknown Bottom

P – PALUSTRINE

ECOLOGICAL SYSTEM

No Subsystem

CLASS

Subclass

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	ML MOSS LICHEN	EM EMERGENT	SS SCRUB-SHRUB	FO FORESTED	OW OPEN WATER
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	Unknown Bottom

MODIFYING TERMS

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WATER REGIME(1)

Non-Tidal		Tidal	
A Temporary	H Permanent	E Artificial	R Seasonal Tidal
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal
C Seasonal	K Artificial	M Irregularly Exposed	T Semipermanent Tidal
D Semipermanent Well-drained	Z Intermittently Exposed/Permanent	N Regular	V Permanent Tidal
E Seasonal Saturated	W Intermittently Flooded/Temporary	P Irregular	U Unknown
F Semipermanent	Y Saturated/Semipermanent/Seasonal		
G Intermittently Exposed	U Unknown		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hypersaline	a Acid
2 Euhaline	8 Euhaline	i Circumneutral
3 Mixohaline (Brackish)	9 Mixosaline	j Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

0	Organic
A	Mineral

SPECIAL MODIFIERS

b Beaver	h Diked/Impounded
d Partially Drained/Ditched	r Artificial
f Farmed	s Spoil
	x Excavated

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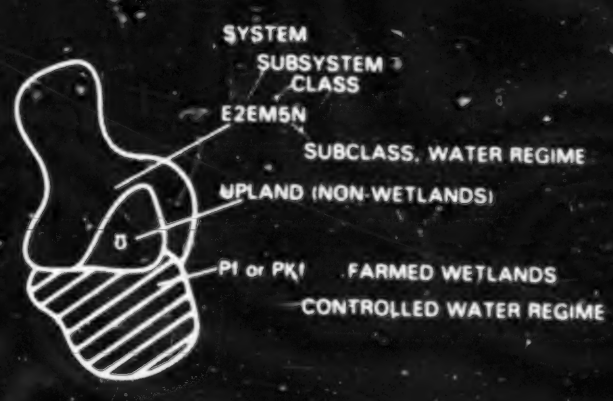
SYMBOLOGY EXAMPLE



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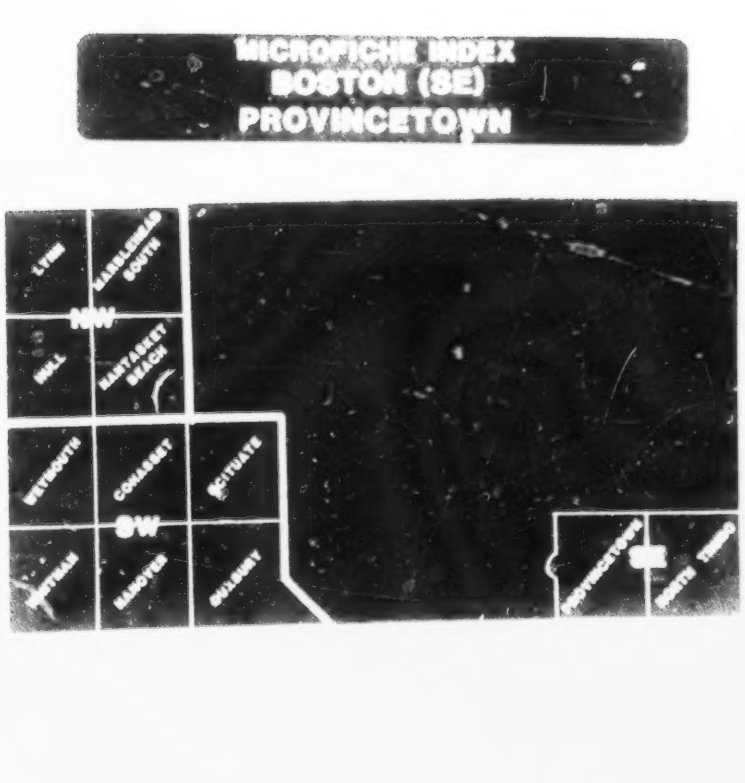
MICROFICHE INDEX
BOSTON (SE)
PROVINCETOWN



NATIONAL WETLANDS INVENTORY

UNITED STATES DEPARTMENT OF THE INTERIOR

BST-8

ATLANTIC OCEAN

M10WL

CAPE COD BAY

PROVINCETOWN HARBOR

M10WL

Peaked Hill Bar

Provincetown

Pilgrim Lake

Herring Cove

Shank Painter Bar

Wood End Bar

Tidal Flat

Breakwater

Light

Lighthouse

Boundary

INDEFINITE

PSS1A PSS1Y PSS1E PFO1A PFO1Y PFO1/4 POWH PEME E2EMP E2FLN E1OWL M2FLN M2BBP M2BBN

SCALE 1:25,000

KILOMETERS 1 0 1

MILE 1/2 0

1000 0 5000 FEET

BOSTON SE
PROVINCETOWN

4/77

PROVINCETOWN, MASS

11

42°00'
70°07'30"

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1978

HALF SHOT

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	2 Mollusc 3 Worm	

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	RS ROCKY SHORE	BB BEACH BAR
1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent	2 Mollusc 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 8 Vegetated Non pioneer	1 Bedrock 2 Boulder 8 Vegetated Non pioneer	1 Cobble Gravel 2 Sand

E – ESTUARINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Subtidal

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	RF REEF	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	

2 – Intertidal

AB AQUATIC BED	RF REEF	FL FLAT	SB STREAMBED	RS ROCKY SHORE	BB BEACH BAR	EM EMERGENT	SS SCRUB-SHRUB	FO FORESTED
1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder 8 Vegetated Non pioneer	1 Cobble-Gravel 2 Sand	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 3 Broad-leaved-Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Tidal

EM EMERGENT(1)
2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent

2 – Lower Perennial

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer

3 – Upper Perennial

AB AQUATIC BED	FL FLAT
1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer

4 – Intermittent

SB STREAMBED	RS ROCKY SHORE	BB BEACH BAR
1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand

5 – Unknown Perennial

OW OPEN WATER Unknown Bottom

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L – LACUSTRINE

ECOLOGICAL SYSTEM

Ecological Subsystem

CLASS

Subclass

1 – Limnetic

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	

2 – Littoral

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	RS ROCKY SHORE	BB BEACH BAR	EM EMERGENT	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Bedrock 2 Boulder	1 Cobble Gravel 2 Sand	2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent	

P – PALUSTRINE

ECOLOGICAL SYSTEM

No Subsystem

CLASS

Subclass

RB ROCK BOTTOM	UB UNCONSOLIDATED BOTTOM	AB AQUATIC BED	FL FLAT	ML MOSS LICHEN	EM EMERGENT	SS SCRUB-SHRUB	FO FORESTED	OW OPEN WATER Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated Pioneer 6 Vegetated Non pioneer	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent 3 Narrow leaved Nonpersistent 4 Broad leaved Nonpersistent 5 Narrow leaved Persistent 6 Broad leaved Persistent	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad leaved Deciduous 2 Needle leaved Deciduous 3 Broad leaved Evergreen 4 Needle leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	

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Non-Tidal

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C Seasonal	K Artificial	Ma Irregularly Exposed	T Semipermanent Tidal
D Seasonal Well-drained	Z Intermittently Exposed/Permanent	M Regular	V Permanent Tidal
E Seasonal Saturated	W Intermittently Flooded/Temporary	N Irregular	U Unknown
F Semipermanent	Y Saturated/Semipermanent/Seasonal		
G Intermittently Exposed	U Unknown		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
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3 Mesohaline (Brackish)	9 Mixosaline	i Alkaline
4 Polyhaline	0 Fresh	
5 Mesohaline		
6 Oligohaline		
0 Fresh		

SOIL

8 Organic	
n Mineral	

SPECIAL MODIFIERS

b Beaver	h Diked/Impounded
d Partially Drained/Ditched	r Artificial
f Farmed	s Spoil
	x Excavated

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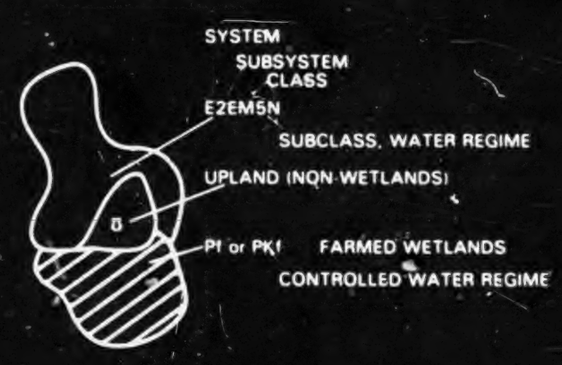

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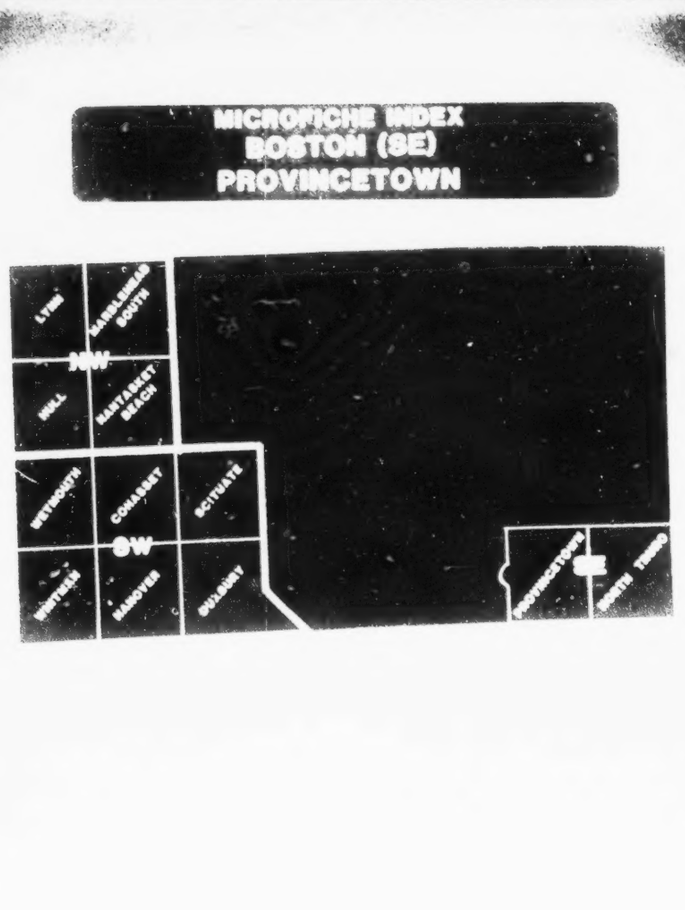
MICROFICHE INDEX
BOSTON (SE)
PROVINCETOWN



NATIONAL WETLANDS INVENTORY
UNITED STATES DEPARTMENT OF THE INTERIOR

P37-7

A T L A N T I C O C E A N

M10WL

M28BN

Peaked Hill Bar

PSS1Y
PEME
E10WL
Pilgrim Lake

PFO1
PSS1E
POWH

Head of the Meadow Beach

Highland Light

M28BN

Pond Village

C A P E C O D B A Y

M10WL

M28BN

12
42°00'
70°00'

4/77

BOSTON SE
PROVINCETOWN

NORTH TRURO, MASS.

SCALE 1:25 000

WETLAND LEGEND

U – Primarily represents upland areas, but may include unclassified wetlands such as man-modified areas, non photo-identifiable areas and/or unintentional omissions.

M – MARINE

ECOLOGICAL SYSTEM: Ecological Subsystem

1 – Subtidal

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	RF – REEF	OW – OPEN WATER/ Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 8 Unknown Submergent	1 Coral 3 Worm	

2 – Intertidal

AB – AQUATIC BED	RF – REEF	FL – FLAT	RS – ROCKY SHORE	BB – BEACH/BAR
1 Submergent Algal 2 Submergent Vascular 8 Unknown Submergent	1 Coral 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 8 Vegetated Non-pioneer	1 Bedrock 2 Boulder 8 Vegetated Non-pioneer	1 Cobble-Gravel 2 Sand

CLASS: Subclass

E – ESTUARINE

ECOLOGICAL SYSTEM: Ecological Subsystem

1 – Subtidal

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	RF – REEF	OW – OPEN WATER/ Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating-leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	

2 – Intertidal

AB – AQUATIC BED	RF – REEF	FL – FLAT	SB – STREAMBED	RS – ROCKY SHORE	BB – BEACH/BAR	EM – EMERGENT	SS – SCRUB/SHRUB	FO – FORESTED
1 Submergent Algal 2 Submergent Vascular 6 Unknown Submergent 7 Unknown Surface	2 Mollusc 3 Worm	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 6 Vegetated Pioneer 8 Vegetated Non-pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder 8 Vegetated Non-pioneer	1 Cobble-Gravel 2 Sand	1 Persistent 2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent 5 Narrow-leaved Persistent 6 Broad-leaved Persistent	1 Broad-leaved Deciduous 2 Broad-leaved Evergreen 3 Needle-leaved Evergreen 6 Dead 7 Deciduous 8 Evergreen	1 Broad-leaved Deciduous 2 Broad-leaved Evergreen 3 Needle-leaved Evergreen 6 Dead 7 Deciduous 8 Evergreen

R – RIVERINE

ECOLOGICAL SYSTEM: Ecological Subsystem

1 – Tidal	2 – Lower Perennial	3 – Upper Perennial	4 – Intermittent	5 – Unknown Perennial
CLASS: Subclass	CLASS: Subclass	CLASS: Subclass	CLASS: Subclass	CLASS: Subclass

EM – EMERGENT(1)	RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	FL – FLAT	SB – STREAMBED	RS – ROCKY SHORE	BB – BEACH/BAR	OW – OPEN WATER/ Unknown Bottom
2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating-leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 6 Vegetated Pioneer 8 Vegetated Non-pioneer	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand	

(1) EM – EMERGENTS are only found in the Riverine Tidal and Riverine Lower Perennial Ecological Subsystem. All other classes are found in all Riverine Ecological Subsystems.

L – LACUSTRINE

ECOLOGICAL SYSTEM: Ecological Subsystem

1 – Limnetic

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	OW – OPEN WATER/ Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating-leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	

2 – Littoral

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	FL – FLAT	RS – ROCKY SHORE	BB – BEACH-BAR	EM – EMERGENT	OW – OPEN WATER/ Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating-leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 6 Vegetated Pioneer 8 Vegetated Non-pioneer	1 Bedrock 2 Boulder	1 Cobble Gravel 2 Sand	1 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent	

CLASS: Subclass

P – PALUSTRINE

ECOLOGICAL SYSTEM: No Subsystem

CLASS: Subclass

RB – ROCK BOTTOM	UB – UNCONSOLIDATED BOTTOM	AB – AQUATIC BED	FL – FLAT	ML – MOSS/ LICHEN	EM – EMERGENT	SS – SCRUB/SHRUB	FO – FORESTED	OW – OPEN WATER/ Unknown Bottom
1 Bedrock 2 Boulder	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic	1 Submergent Algal 2 Submergent Vascular 3 Submergent Moss 4 Floating-leaved 5 Floating 6 Unknown Submergent 7 Unknown Surface	1 Cobble/Gravel 2 Sand 3 Mud 4 Organic 6 Vegetated Pioneer 8 Vegetated Non-pioneer	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent 3 Narrow-leaved Nonpersistent 4 Broad-leaved Nonpersistent 5 Narrow-leaved Persistent 6 Broad-leaved Persistent	1 Broad-leaved Deciduous 2 Needle-leaved Deciduous 3 Broad-leaved Evergreen 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-leaved Deciduous 2 Needle-leaved Deciduous 3 Broad-leaved Evergreen 4 Needle-leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	

MODIFYING TERMS

In order to more adequately describe wetland and aquatic habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME(1)

Non-Tidal		Tidal	
A Temporary	H Permanent	K Artificial	R Seasonal Tidal
B Saturated	J Intermittently Flooded	L Subtidal	S Temporary Tidal
C Seasonal	K Artificial	M Irregularly Exposed	T Semipermanent Tidal
D Seasonal Well-drained	Z Intermittently Exposed/Permanent	N Regular	V Permanent Tidal
E Seasonal Saturated	W Intermittently Flooded/Temporary	P Irregular	U Unknown
F Semipermanent	Y Saturated/Semipermanent/Seasonal		
G Intermittently Exposed	U Unknown		

WATER CHEMISTRY

Coastal Salinity	Inland Salinity	pH Modifiers for all Fresh Water
1 Hyperhaline	7 Hyperhaline	a Acid
2 Euhaline	8 Euhaline	i Circumneutral
3 Mixohaline (Brackish)	9 Mixohaline	t Alkaline
4 Polyhaline	0 Fresh	
5 Mixohaline		
6 Euhaline		
7 Hyperhaline		
0 Fresh		

SOIL

9 Organic	
n Mineral	

SPECIAL MODIFIERS

b Beaver	h Diked/Impounded
d Partially Drained/Ditched	r Artificial
f Farmed	s Spoil
	x Excavated

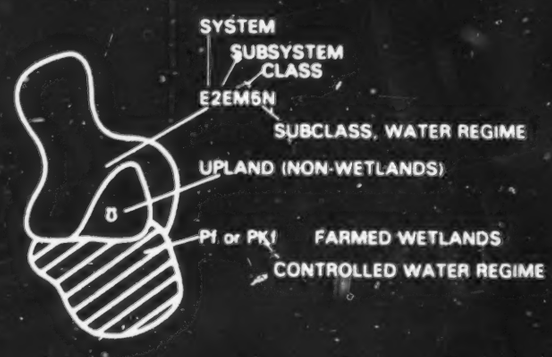
(1) Information on the water regime modifiers found on this legend, but not found in the classification system, may be obtained from the above listed source.

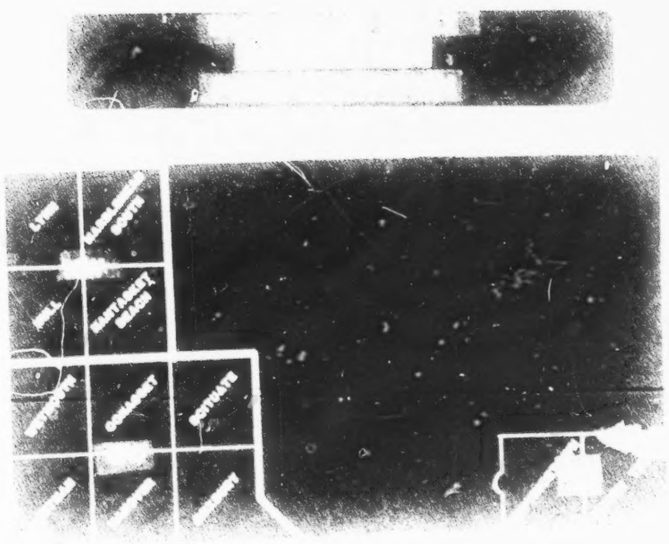
SPECIAL NOTE

This document was prepared primarily by stereoscopic analysis of high altitude aerial photographs. Wetlands were identified on the photographs based on vegetation, visible hydrology, and geography in accordance with Classification of Wetlands and Deep-Water Habitats of the United States (An Operational Draft), Cowardin, et al, 1977. The aerial photographs typically reflect conditions during the specific year and season when they were taken. In addition, there is a margin of error inherent in the use of the aerial photographs. Thus, a detailed on the ground and historical analysis of a single site may result in a revision of the wetland boundaries established through photographic interpretation. In addition, some small wetlands and those obscured by dense forest cover may not be included on this document.

Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, State or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, State or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

SYMBOLOGY EXAMPLE



NOTES TO THE USER

- Wetlands which have been field examined are indicated on the map by an asterisk (*).
- Dominance type (either vegetative or sedentary animal) can be added to the map by the interested user.
- Additions or corrections to the wetlands information displayed on this map are solicited. Please forward such information to the address indicated.